# Table of Contents

UNLV: Mission and Core Themes • 2
Nevada System of Higher Education • 2
Message from the UNLV President • 3
Message from the UNL Executive Vice President & Provost • 3
Graduate College Dean’s Message • 4
About the UNLV Graduate College • 4
Your Graduate School Experience • 6
University Resources • 7
Campus Highlights • 8
Libraries, Research Centers, Institutes, and Service Agencies • 8
Admission, Registration • 10
Tuition Fees • 18
Degree Progression Policies Procedures • 20
Disability Resource Center • 27
Graduate Student Financial Information • 27
Academic Policies • 34
Discolsures • 42
Academic Calendar • 43
Accreditations • 44

Lee Business School • 45
College of Education • 91
Howard R. Hughes College of Engineering • 221
College of Fine Arts • 335
Division of Health Sciences • 404
William F. Harrah College of Hotel Administration • 483
William S. Boyd School of Law • 498
College of Liberal Arts • 507
College of Sciences • 634
Greenspun College of Urban Affairs • 701
UNLV: Mission and Core Themes

The University of Nevada, Las Vegas, located in the vibrant and dynamic city of Las Vegas and surrounded by the Mojave Desert, embraces the traditional values of higher education adapted for the global community of the twenty-first century. UNLV assists students in meeting the intellectual and ethical challenges of responsible citizenship and a full and productive life through opportunities to acquire the knowledge and common experiences that enhance critical thinking, leadership skills, aesthetic sensitivity, and social integrity.

The university provides traditional and professional academic programs for a diverse student body and encourages innovative and interdisciplinary approaches to teaching, learning, and scholarship. UNLV simultaneously engenders collegial relationships and a sense of community among its members. UNLV embraces the interdependence of quality instruction, scholarly pursuits, and substantive involvements in campus and community life. The university offers artistic, cultural, and technical resources and opportunities to the broadest possible community. It promotes research programs and creative activities by students and faculty that respond to the needs of an urban community in a desert environment. UNLV is committed to developing a synergy between professional and liberal studies, between undergraduate education and graduate programs, and between superior teaching and meaningful research. UNLV increasingly is a dynamic resource for, and partner with, the community that it serves.

Since the first classes were held on campus in 1957, UNLV has transformed itself from a small branch college into a thriving urban research institution. Along the way, our urban university has become an indispensable resource in one of the country’s fastest-growing and most enterprising cities. UNLV’s 330-acre main campus, located on the southern tip of Nevada in a desert valley surrounded by mountains, is home to more than 340 undergraduate and graduate academic programs, all accredited by the Northwest Commission on Colleges and Universities.

UNLV Mission Statement

Our mission is for UNLV’s diverse faculty, students, staff, and alumni promote community well-being and individual achievement through education, research, scholarship, creative activities, and clinical services. We stimulate economic development and diversification, foster a climate of innovation, promote health, and enrich the cultural vitality of the communities that we serve. Our vision is that by 2025, UNLV will be recognized as a top tier public university in research, education, and community impact. Read more: unlv.edu/about/mission

Core Themes

The core themes of UNLV, the objectives, and their indicators of achievement, express the mission of the university. The core themes describe in broad statements what UNLV plans to accomplish and reflect the values that are shared by faculty and staff. Evaluation of the metrics associated with the indicators of achievement will demonstrate how effectively UNLV is carrying out its mission.

• Core Theme 1: Student Achievement
• Core Theme 2: Research, Scholarship, Creative Activity
• Core Theme 3: Academic Health Center
• Core Theme 4: Community Partnerships

More information is available on the UNLV Top Tier Strategic Plan website: unlv.edu/toptier/progress

Nevada System of Higher Education

The Nevada System of Higher Education, comprised of two doctoral-granting universities, a state college, four comprehensive community colleges and one environmental research institute, serves the educational and job training needs of Nevada.

NSHE provides educational opportunities to more than 107,600 students and is governed by the Nevada Board of Regents.

Thom Reilly, Chancellor

The Board of Regents wishes to advance student learning to the highest level, foster the expansion of knowledge through teaching and research, encourage community service, and enrich the lives of our students, our communities, our state, and the nation. In fulfillment of this purpose, we hold the following values at the center of our endeavor:

• Integrity
• Excellence
• Accountability
• Inclusiveness
• Creativity
• Innovation

Board of Regents
Kevin J. Page, Chairman
Jason Geddes, Ph.D., Vice Chairman
Dr. Patrick R. Carter
Amy J. Carvalho
Carol Del Carlo
Mark W. Doubrava, M.D.
Trevor Hayes
Sam Lieberman
Cathy McAdoo
Donald Sylvantee McMichael Sr.
John T. Moran
Laura Perkins
Rick Trachok
A Message from the UNLV President

I want to welcome you and thank you for considering making UNLV part of your educational journey. UNLV is one of 130 universities in the U.S. to hold the prestigious Carnegie R1 classification for “very high research activity,” a gold standard for higher education. With more than 150 graduate programs, UNLV will provide you with the knowledge and experience to prepare you for what comes next.

When I chose UNLV as a professor more than 20 years ago, I was drawn to its vibrant energy and its vast, open landscape of opportunities. Since that time, UNLV has grown into a thriving urban research university backed by an engaged and passionate community. Our horizons, and those opportunities, continue to expand.

Whether you want to advance professionally, pursue an academic passion, develop your talent, or engage in high-impact research, UNLV is dedicated to delivering an outstanding educational experience. As a graduate student, you will work with and learn from faculty who are highly accomplished and respected in their field. You also will collaborate with peers and with partners in the corporate and nonprofit sectors.

If you have stepped foot on UNLV’s campus, you have surely felt the irresistible energy that resides here. UNLV is a young, audacious university. It is full of possibilities. It is a place where, no matter the challenge, Rebels Make it Happen. I hope you will join us today!

Sincerely,
Marta Meana, Ph.D., President

The President’s Cabinet

The cabinet’s mission is to provide advice and counsel to the president on matters regarding policies, procedures, and strategic planning.

Diane Chase, Ph.D.
Executive Vice President & Provost
Juanita Fain, Ph.D.
Vice President for Student Affairs
Zachary Miles
Associate Vice President for Economic Development
Barbee Oakes, Ph.D.
Chief Diversity Officer
Mary Ruth Carleton
Interim Vice President of Philanthropy & Alumni Engagement
Desiree Reed-Francois
Director of Athletics
Robert Correales
Interim Vice President for University Compliance
Elda Luna Sidhu, Esq.
General Counsel
Fred Tredup, Ed.D.
Chief of Staff
Jean Vock
Senior Vice President, Business Affairs/CFO
Luis Valera, J.D.
Vice President for Government Affairs
Mary Croughan, Ph.D.
Vice President for Research and Economic Development
Tod Fitzpatrick, D.M.A.
Senior Advisor to the President
Vince Alberta
Senior Associate Vice President of Integrated Marketing & Branding

A Message from UNLV'S Executive Vice President and Provost

Welcome to the Graduate College at UNLV. Whether you are a continuing student or new to the campus, I encourage you to explore the incredible opportunities and experiences that our university has to offer.

UNLV is among the nation’s best public research universities. We are committed to excellence in:
- Research, Scholarship, and Creative Activity
- Student Achievement
- Academic Health Center
- Community Partnerships
- Infrastructure and Shared Governance

The university recently achieved the R1 “very high research activity” Carnegie Classification of Institutions of Higher Education. This represents the gold standard for university research, which puts UNLV in the top 3 percent of higher education institutions in the country.

The momentum on campus is growing as we continue to invest in faculty positions, facilities, and student support. These efforts help ensure student success. They are bolstering graduate programs and the scope, complexity, and prominence of our research activities.

At UNLV you will discover a climate of innovation in which faculty and students produce high-quality, widely disseminated, and influential research, scholarship, and creative activities.

I wish you all the best with your academic pursuits.

Regards,
Diane Chase, Ph.D.
Executive Vice President and Provost
Graduate College Dean’s Message

A Message from the Dean of the Graduate College
Dr. Kate Hausbeck Korgan, Ph.D.

Welcome to the Graduate College at the University of Nevada, Las Vegas! I am pleased to invite you to explore our Graduate Catalog to familiarize yourself with the stellar graduate programs we offer and to review policies, practices, and program requirements. I also encourage you to peruse our website to better understand the breadth and depth of the services that we provide to prospective students, current students, postdocs, graduate faculty, alumni, and donors.

UNLV’s more than 155 graduate programs offer outstanding quality and opportunity. At UNLV, graduate students – also known as Grad Rebels – are able to work closely with world-class graduate faculty who are conducting research and engaging in scholarly and creative activities to improve the well-being of our community and state, and positively impact our nation and the world. We pride ourselves on cultivating a diverse campus culture that promotes graduate faculty excellence, graduate program quality, and stellar support for our graduate students. A key part of the graduate educational experience is our students’ involvement in the cutting-edge research, innovative scholarly endeavors, and inspired creative activities, as well as opportunities for free research-informed professional and career development based on current best practices.

UNLV is classified by The Carnegie Classification of Institutions of Higher Education as an R1 university, Highest Research Activity, Comprehensive Doctoral Institution with Medical School. Recognized as a Minority Serving Institution (MSI) by the U.S. Department of Education, UNLV has a diverse student population comprised of more than 30,000 students, of whom more than 5,000 are graduate and professional student scholars, and more than 1,000 are funded as Graduate Assistants. Our community of scholars is supported by more than 3,300 faculty and staff, whose research, scholarship, creative and innovative activities, leadership, and teaching create a vibrant and exciting center of learning. One of the fastest-growing and most enterprising metropolitan areas in the country, Las Vegas is truly a unique laboratory for graduate study, and Southern Nevada provides extraordinary opportunities for engaged research, entertainment, outdoor activities, and an overall high quality of life. With an affordable cost of living and no state income tax, Nevada is an excellent place for graduate study.

The Graduate College provides outstanding service and support to our Grad Rebel community, and our core values are excellence, equity, diversity, opportunity, and impact. We are committed to providing graduate students with the highest-quality academic experience in a welcoming and collegial environment. I encourage new and current students to take advantage of the Graduate College’s Professional Development Academy, which offers free academic support certifications, advising, professional development workshops, and programming to help create a more well-rounded experience. Read our weekly newsletter to keep abreast of workshops, events, deadlines, and important campus news. And, most importantly, know that you belong here. While graduate school is challenging, I know you can do it. All of us at the Graduate College can help guide you as you take on the challenge, excitement, and rewards of advanced study.

All my best,
Kathryn Hausbeck Korgan, Ph.D.
Dean, UNLV Graduate College

About the UNLV Graduate College

The UNLV Graduate College

History
The University of Nevada, Las Vegas – then known as Nevada Southern – began offering some graduate courses in the 1950s, but it was not until 1964 that UNLV established the Division of Graduate Studies, and 1965 when we admitted our first UNLV graduate students. In 1967, the university conferred its first 11 graduate degrees: nine of the degrees were from the School of Education and two were from the School of Science and Mathematics. Then in 1971-1972, the Graduate College was established by the Nevada Board of Regents. We are proud to have offered our first doctoral degree (Ed.D.) in 1977, and our first research doctoral degree (Ph.D.) in 1991. After decades of growth and maturation, today the Graduate College is responsible for recruitment, admissions, RPC (retention, progression, completion), degree conferrals; thesis & dissertation formatting & submission; the graduate faculty; curriculum and program creation/review for graduate certificate, master’s, specialist, and doctoral programs; service and support to graduate degree and non-degree seeking students the GC Professional Development Academy, Graduate Financial Services (GAs, scholarships, fellowships, awards); the Graduate Faculty Fellows program; the Office of Postdoctoral Affairs; graduate interdisciplinary programs; and coordination of the Graduate Council at UNLV, which is the faculty governance wing of the college..

Mission
With an institutional mission of advancing graduate education at UNLV, the Graduate College supports our more than 155 graduate certificate, master’s, specialist, doctoral, and dual degree programs. We work closely with departments and the graduate faculty to provide UNLV’s more than 5,000 graduate students with the highest quality academic experience, not only through course work, but also research, scholarship, creative activity and professional/career development opportunities. Our overarching goal is to support and promote UNLV’s unique blend of graduate programs while providing services that facilitate graduate study and enhance student learning.

Our Graduate College Top Tier mission is to provide strong, collaborative leadership promoting a lively intellectual climate where:

1. the highest quality graduate scholarship and research can flourish;
2. we provide advanced educational opportunities to graduate students and empower them to success;
3. we offer exemplary student services across the graduate lifecycle;
4. we cultivate a graduate community of faculty and student scholars who thrive in collaboration with partners throughout Nevada; and
5. we strategically grow our professional graduate programs and our research doctoral community.

Goals & Areas of Responsibility
Our core values and guiding principles are: excellence, equity, diversity, opportunity, and impact.

We strive daily to cultivate a campus climate that celebrates new ideas and a diversity of perspectives, to encourage and
support outstanding graduate research and creative activity, and
to advocate for graduate education and the numerous benefits it
brings to faculty, our campus, our students, and the community.
The Graduate College collaborates with academic colleges and
departments to serve and support graduate program success and
to assist graduate students from admissions through graduation.

To accomplish these objectives, the Graduate College’s areas
of responsibilities include the following and we are committed
to providing 100% solutions to anyone looking for assistance in
any of the following areas.

1. Recruitment. Collaborate with graduate programs to support
the recruitment of diverse and outstanding new graduate
students.

2. Admissions. Prospective graduate students apply for
admission for graduate study in the Graduate College and
the department or program in which they wish to study,
simultaneously. The Graduate College evaluates applicant
transcripts, foreign credential evaluations, GPA, and
English proficiency. Departments recommend applicants for
admission (or they deny their application), and the Graduate
College renders the final decision. Meeting Graduate College
admissions requirements is a necessary, but not sufficient,
condition for graduate admission.

3. Student Records, Retention, Progression and Completion.
The Graduate College utilizes graduate tracking data, best
practices, and innovative programs to foster successful
student retention, progression through your program, and
timely degree completion. Our RPC team (Retention,
Progression, Completion) are here to support students from
first enrollment through graduation. The Graduate College is
also responsible for the maintenance of all graduate student
academic records and approving all required forms.

4. Retention and graduation. The Graduate College utilizes
graduate tracking data, best practices, and innovative programs to foster successful student retention and to
stimulate the pipeline to graduation. We handle thesis/
dissertation submission and conduct degree checks to help
keep students on track to graduate.

5. Graduate student probation and separation. The Graduate
College is responsible for handling graduate student
probation, and for separating students who are failing to
successfully progress in their graduate programs.

6. Electronic systems and data. The Graduate College is
responsible for the design, management, and coordination
of electronic systems and strategic data to support graduate
students, graduate faculty, staff, and graduate programs. This
includes electronic forms through DocuSign, Curriculog,
Retrieval, and the Graduate Rebel Gateway.

7. Conferral of degrees. The Graduate College is responsible for
certifying and posting all graduate degrees and certificates.

8. Program review. This involves the periodic review of all
programs and departments that offer graduate or professional
degrees, in conjunction with the Graduate Council and the
Faculty Senate.

9. Curriculum and program development. The Graduate
College works closely with the Graduate Council to oversee
all graduate and professional curriculum development;
oversee new, innovative, graduate program development;
and to review and approve all changes to existing graduate
programs.

10. Graduate student funding. The Graduate College
oversees and runs the graduate assistant program, and
is the centralized unit for the distribution of graduate
scholarships and fellowships. We coordinate with Financial
Aid on periodic cost of living studies for graduate students,
and on the awarding of scholarships, and other graduate
student financial matters. We collaborate with the UNLV
Foundation in the development of new graduate funding
sources and graduate scholarship and fellowship awards.

11. Graduate College Professional Development Academy.
The Graduate College provides professional and career
development opportunities for graduate students, non-
advisement, and outreach services, and handles all graduate student academic appeals. We offer more than
20 events, 60 workshops, 4 free certifications, and 5 free
programs per year, engaging and impacting more than
1200 students in 2018-2019 alone.

12. Graduate & Professional Student Association (GPSA). The
Graduate College works closely in support of the GPSA,
in coordination with the GPSA manager, to advance student goals. Throughout the year, the Graduate College
co-sponsors events with the GPSA, including the annual
GPSA Research Forum.

13. Faculty. The privileges, rights, and responsibilities
associated with Graduate Faculty Status are designated by
the Graduate College, which reviews and approves all
applications for Graduate Faculty Status (GFS). Further,
the Graduate College is committed to supporting graduate
faculty in their scholarship, successful student mentorship,
and other professional endeavors related to, and supportive
of, graduate education.

14. Awards and recognition of achievement. The Graduate
College runs several prestigious award competitions each
year to recognize outstanding accomplishments by graduate
students and graduate faculty. Striving for excellence is a
collaborative effort. The Graduate College works closely
with the Graduate Council, graduate faculty, the GPSA and
graduate students, and graduate programs, to maintain and
enhance excellence in individual disciplines and to achieve
our shared mission, goals, and objectives.

EQUAl OPPORtunity
The University of Nevada, Las Vegas, and the Graduate
College, are an equal opportunity institution. UNLV is an EEO/
AA/Title VI/Title IX/Section 504 institution. All applicants
to the Graduate College, and admitted students, will receive
equal consideration and access to programs and activities,
without regard to race, color, national origin, religion, sex,
pregnancy, marital status, sexual orientation, gender identity,
age, disability, or covered US veteran status. Diversity is our
strength and equity is our core value and commitment.
Your Graduate School Experience

The reasons for enrolling in graduate school are as varied as the people who make up the graduate student population. Your decision to seek an advanced degree means that you share with other UNLV graduate students a spirit of adventure that comes with discovery—discovery of new information, new skills—and discovery of the depths of your own intellectual abilities. You will also share a capacity for hard work, because graduate study, whatever the subject matter, is difficult. But at the end of the rigorous and oftentimes exhilarating graduate coursework and research in your chosen field, you will have the satisfaction of having mastered a body of knowledge that places you in an elite group. Earning your graduate degree will be an achievement that marks the beginning of a professional career, more than an end of your academic studies. Your graduate degree will prepare you to engage with other experts in your field and to move forward to make notable contributions in your area of study and beyond.

The Graduate College at UNLV

The university’s advanced degree programs are based on close working relationships between students and faculty. Although most programs can be developed to meet the needs and interests of the individual student, the student must also satisfy all departmental and Graduate College requirements. Therefore, it is important that all students carefully read the appropriate sections of this catalog and stay in close contact with the faculty members in their degree program. Students are responsible for being aware of and observing the policies and regulations stated in the Graduate Catalog. Please note that ignorance of campus policies is not a sufficient reason for exemption from said policies.

The Graduate Dean and the Associate Dean, with the advice of the Graduate Council determines policies and procedures of the Graduate College. The Council consists of one delegate from each academic department that houses an advanced degree program, and it operates with standing committees. The Graduate and Professional Student Association also has representatives on the Graduate Council. The Graduate Dean and Senior Associate Graduate Dean are ex-officio members of the Graduate Council and each standing committee.

Once enrolled as a student, you will have various responsibilities within the academic community. The conduct of all persons affiliated with the University of Nevada, Las Vegas is governed by the Rules and Disciplinary Procedures for Members of the University Community. This code outlines the responsibilities of students, faculty, staff and administration as well as the rules, sanctions and hearing procedures in effect on the campus. Printed copies of the code are available in the Registrar’s Office. The UNLV Student Conduct Code is available through the UNLV Office of Student Conduct.

Additional information may be found in this catalog and on the Graduate College website.

Services for Graduate Students

The Graduate College offers services to support graduate students in many different areas. In cooperation with various offices at the University of Nevada, Las Vegas, Graduate

Student Services seeks to provide information and programs aimed at the unique needs of graduate students.

Orientation (Spring, Fall). Every semester, prior to the beginning of classes, the Graduate College conducts an orientation for new graduate students and graduate assistants. Each department and/or program offering a graduate degree provides additional orientation and advising for new students.

Recruitment. UNLV is committed to growing selectively, serving the region, and achieving distinction. In recognition of this commitment, the Graduate College works with academic departments who seek to develop, implement, coordinate, and monitor their recruitment programs and outcomes. The UNLV Graduate College also proudly participates in the McNair Scholars Program, which helps to identify and prepare under represented and minority students for graduate school.

Graduate College Professional Development Academy. The Career & Professional Development Institute is a virtual success center designed to help graduate students engage with departments and colleges around campus; provide opportunities for professional development, research engagement, and scholarly activities; help graduate students successfully complete their degrees and move into their desired field of work; and build and maintain a lifelong relationship between graduate students and the Graduate College.

Thesis and Dissertation Support. For many programs, the thesis or dissertation represents the culmination of the graduate experience. These students’ final theses and dissertations must conform to the formatting guidelines established by the Graduate College, and students must electronically submit a properly formatted pdf copy of the final document before conferral of their graduate degree. The Graduate College provides guidance, oversight and direction to graduate students and faculty concerning the policies and procedures for final submission of the thesis or dissertation.

Professional Development Programs. The Graduate College works with other campus units to provide a formal, value-added experience for graduate students that will enhance their career development in the areas of teaching, research, and other scholarly skills.

Student Advising Services. The Graduate College advising services provide informal and student-centered issue-resolution services, and general non-academic advising advice, to graduate students and prospective graduate students. The office offers guidance, information, and assistance when regular channels have failed to provide graduate students with the information that they need to solve problems or make informed decisions.

Note: The office does not provide academic advising; students must consult with the graduate coordinator or their designated faculty advisor in their own graduate program, or program of interest, for academic guidance.

Graduate and Professional Student Association

The Graduate & Professional Student Association was formed in 1980 to provide additional opportunities for graduate students to interact, both socially and academically, and to provide a forum for dealing with problems specific to graduate student life. The GPSA’s primary goals are to improve the quality of
graduate education and the graduate student experience, and to offer graduate student grants for research and other scholarly projects.

Each department on campus has a graduate student GPSA representative who attends GPSA meetings, participates on GPSA committees, and communicates all pertinent information concerning the GPSA to his/her constituents. The GPSA has graduate student representation on all standing committees of the Graduate College, and participates in at least one community service project each semester.

The GPSA office provides a study area, a copy service and a computer lab, all in the Lied Library. The office is open year round, all day, and some evenings. Meetings are held on the first Monday of every month in the Student Union, and all graduate students are encouraged to attend and participate. For more information visit the GPSA website, or contact the GPSA office in Lied Library, Room 2141, or call (702) 895-2261.

### University Resources

- Academic Success Center
- Alumni
- Athletics
- Bookstore
- Campus Copy Center
- Campus Dining
- Career Services
- Commencement
- Computer Facilities
- Diversity and Inclusion
- Disability Resource Center
- Financial Aid and Scholarships
- Graduate & Professional Student Association (GPSA)
- Graduate College
- Graduate College Professional Development Academy
- Human Resources
- International Student and Scholars
- Intersection: Academic Multicultural Resource Center
- Jean Nidetch Women’s Center
- Libraries
- Museums and Galleries
- Office of Information Technology (OIT)
- Parking & Transportation Services
- Police Services
- Rebel Card
- Rebel Wellness Zone
- Registrar
- Student Cashiering
- Student Conduct
- Student Counseling and Psychological Services
- Student Health Center
- Student Housing
- Student Wellness and Recreation Center
- Transcripts
- Veteran Services
- Writing Center
Campus Highlights

With more than 30,000 students and 3,500 faculty and staff members, the University of Nevada, Las Vegas (UNLV) is located on 350 tree-lined acres in one of the country’s fastest-growing and most enterprising cities. Founded in 1957, UNLV is home to more than 15 colleges and schools and offers more than 340 undergraduate, master’s, and doctoral academic programs.

Ranked in the highest category, Doctoral/Very High Research Activity, by the Carnegie Classification of Institutions of Higher Education, UNLV is home to the world-renowned William F. Harrah College of Hospitality as well as Nevada’s only law and dental schools. In the fall of 2017, the new UNLV School of Medicine welcomed its first class.

The library is the heart of any university campus, and the Lied Library is a superb facility that utilizes the newest technology, including the Lied Automated Storage and Retrieval (LASR), which integrates industrial automated materials handling technologies with the online library catalog system to provide an innovative solution to long-term library storage. The library also houses a Special Collections department with materials relating to such topics as Nevada history and gaming, among others.

UNLV also has many on-campus research facilities and well-equipped laboratories to serve a growing undergraduate population and more than 5,000 graduate and professional students. Further information on these and other research centers may be found elsewhere in this catalog.

The campus’ spacious lawns and walkways are shaded by trees and complemented by desert foliage. In fact, the entire 350 acre campus, dubbed “The Emerald in the Desert,” has been designated an arboretum. Just outside the campus are apartments, restaurants, shopping centers, libraries, hospitals and all the other hallmarks of a modern urban area.

Dozens of musical, dramatic, dance and artistic groups have been formed under the auspices of the university and perform regularly for campus and community audiences. Each year, a number of popular stage and screen performers and recording artists from every musical category are featured in concert in the university’s events centers.

Many other campus activities including sponsors film series’, lecture series’, dances, intramural athletics, concerts, and special events are scheduled throughout the year. The Scarlet and Gray student newspaper, UNLV-TV, a campus and public-affairs television station, and a nonprofit radio station serve the UNLV community.

The university also has excellent sports facilities for use by students, including lighted tennis courts, playing fields, a 50-meter Olympic swimming pool, two gymnasia, handball/ racquetball courts, dance studios, gymnastics and weight-training rooms, baseball and soccer fields, and a full-size track for jogging enthusiasts.

UNLV is a member of the American Association of State Colleges and Universities, the Council of Graduate Schools in the United States, the Western Association of Graduate Schools, the American Council on Education, and the Western College Association. In addition to full accreditation by the Northwest Commission on Colleges and Universities, the university is recognized by the Nevada State Department of Education for preparation in all fields for which it conducts programs.

Libraries, Research Centers, Institutes, and Service Agencies

Graduate College Professional Development Academy
This virtual success center is designed to help build and assist Grad Rebels. The Center offers Academic Support Certificates, Workshop & Training Sessions, Professional Development, Skills Support & Non-Academic Advising, and Graduate Career Services.

Division of Research and Economic Development
The mission of the Division of Research and Economic Development is to support and promote a culture of excellence and integrity in research, scholarship, and creative activity and to advance economic development that benefits the university, community, and state. The division supports UNLV research and economic development by 1) serving the needs of UNLV faculty, staff, and students as they pursue research, scholarly, and creative activities; 2) developing opportunities, policies, funding, and infrastructure that support the performance of the highest quality research, scholarship, and creative activity; 3) promoting the university as a leader in statewide and regional economic development; 4) supporting the integration of research, scholarship, and creative activity into the educational experiences of students; 5) supporting the design, conduct, and funding of research projects that comply with local, state, and federal guidelines; 6) communicating the value of university research, scholarship, and creative activity to all constituencies; and 7) promoting progress toward attainment of the goals for research, scholarly, and creative activities identified in the university’s Top Tier strategic planning process.

Units reporting to the Division of Research and Economic Development include the offices of Economic Development (including the Small Business Development Center), Research Infrastructure, Research Integrity, Sponsored Programs Undergraduate Research, and the National Supercomputing Institute, the Nevada Institute for Personalized Medicine, and the UNLV International Gaming Institute.

Libraries and Service Agencies

The university is home to approximately 50 research, public service, and archival units that serve a broad clientele. These centers and institutes report through the academic colleges and schools. For a current list, visit the UNLV Libraries and Service Agencies website. Other units provide university-wide services, including the following.

UNLV Libraries UNLV Libraries is committed to encouraging students and creating quality programs that elevate growth and learning. It does so by participating in the articulation and assessment of student learning; providing direct instruction to students; partnering with classroom faculty on course and assignment design; and intentionally creating co-curricular learning experiences. As the only research library in Southern Nevada, UNLV Libraries has a strong community mission. The Lied Library and its four branches (Architecture Studies Library, Health Sciences Library, Teacher Development & Resources Library, and Music Library) offer more than 1.7 million books, including more than 500,000 e-books, as well as almost 20,000 electronic journals containing millions of articles. UNLV Libraries is also home to two renowned research centers: the Center for Gaming Research and the Oral History Research Center. In addition, Special Collections and Archives actively documents and preserves the history and history-in-the-making of Southern Nevada.
Division of Educational Outreach. The division serves Southern Nevada with a wide range of classes offered year-round to those who wish to continue their education, add professional skills, or simply enrich their lives. Noncredit programs include classes, workshops, seminars, field trips, and extended travel-study programs. Certificate programs are offered in a variety of business and management areas. Some courses are approved for professional growth in-service credit by the Clark County School District. Other designated noncredit programs offer continuing education units (CEUs) for successful completion.

Office of Information Technology. OIT is responsible for supporting the academic, research, and administrative aims of the campus through the secure and effective use of technology. Dedicated to providing access to technology for all UNLV students, faculty, and staff, the office strives to create university awareness of technology as a fundamental component of the academic enterprise. OIT supports computer labs, computing devices, instructional technology, campus-wide administrative systems, and network infrastructure. Additional information about the Office of Information Technology can be found at http://www.unlv.edu/provost/office-information-technology.

Summer Term. Summer Term provides a variety of opportunities for students who wish to begin or continue university study. No formal admission to the university is required for summer term study, and no out-of-state tuition is charged to nonresidents. UNLV’s Summer Term offers many of the courses included in the general university curriculum as well as short workshops and seminars.

English Language Center. The center provides access to higher education at UNLV for immigrant, international, and other students learning English who need language, culture, and academic skills to succeed. The center helps students make a smooth transition from English as a second language courses to their academic studies. In addition to a full schedule of credit classes, convenient schedules, and an advising program, the ELC offers students an opportunity to experience the language, culture, and people of the United States.

Writing Center. The center offers free help to currently enrolled UNLV students and to UNLV staff with any writing project, from papers to creative writing to resumes, and at any stage of the writing process. The center’s consultants help clients brainstorm, make an outline, work on drafts, or simply serve as a soundboard for ideas. Services are available in person by appointment or via online submission or Skype. The center also has a computer lab for students to work on your drafts, do research, or work with a consultant.

Marjorie Barrick Museum of Art. The museum provides exhibitions, lectures, and programming that engage visitors’ aesthetic and intellectual sensibilities. The museum is the temporary home of the Las Vegas Art Museum collection, which is featured regularly in the exhibition hall. Additionally, the museum maintains a superb collection of pre-Columbian and ethnographic art. Special arrangements can be made for school groups and tours.

National Supercomputing Institute. Established in 1990, the institute is a full-service supercomputing facility with on-site and off-site user training, national network accessibility, and a mission for excellence in education and research in supercomputing and its applications. The NSI provides supercomputer training and services to academic and research institutions, government and private industry for research and development related to energy, the environment, medical informatics, and health care delivery.

Integrated Graphics Services. This administrative unit is responsible for coordinating and printing a wide variety of university publications and maintaining university graphic standards in print. IGS provides offset printing, black and white and color copying, and an assortment of bindery services. It also operates Rebel Copy and Send, a one-stop retail shop providing printing and shipping services to students, alumni, faculty, and staff. The shop specializes in copying theses and dissertations to Graduate College specifications.

UNLV/CSUN Preschool. The preschool is a division of the Department of Early Childhood, Multilingual, and Special Education and is housed in the Lynn Bennett Early Childhood Education Center on the UNLV Maryland Parkway campus. The mission of the UNLV/CSUN preschool is to provide a model inclusive early childhood program that serves children (6 weeks to 5 years of age) of students, faculty, staff, and general public; teacher training for future educators; and to promote research studies on issues and practices relevant to child development and early learning.

Environmental Monitoring Systems Laboratory-Las Vegas. UNLV is home to one of the U.S. Environmental Protection Agency’s major research centers. The laboratory serves as headquarters for a wide variety of programs aimed at documenting natural and man-made environmental conditions. Through a cooperative agreement, UNLV students and faculty collaborate with laboratory staff on research projects and in instructional activities/staff, and general public; teacher training for future educators; and to promote research studies on issues and practices relevant to child development and early learning.

Oak Ridge Associated Universities. Since 1993, UNLV students and faculty have benefited from its membership in Oak Ridge Associated Universities (ORAU), a consortium of colleges and universities and a management and operating contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Nevada System of Higher Education Computing Services. One of the facilities of the Nevada System of Higher Education statewide computing network is located on the UNLV campus. The facility is responsible for providing equipment and consulting services that support the growth of educational, research, administrative, and public service computing at all NSHE higher education institutions.

University of Nevada Press. The University of Nevada Press is a publisher of scholarly books. Established by the Board of Regents in 1961 and reporting through the University of Nevada-Reno, the press is making a contribution to the state of Nevada and to the scholarly community by publishing books in the areas of history, government, natural resources, ethnic groups, and contemporary affairs.

Western Interstate Commission for Higher Education (WICHE). WICHE aids residents in obtaining graduate and professional level education in fields of study not available within the state. Currently, Nevada is active in the WICHE Professional Student Exchange Program, the Western Regional Graduate Program, and the Western Undergraduate Exchange Program.
Admission & Registration Information

The UNLV Graduate College welcomes applicants from all over the nation and the world to join our community of scholars. Our more than 160 graduate certificates and programs provide an outstanding opportunity for advanced study. Admission to the Graduate College at the University of Nevada, Las Vegas is competitive. The criteria established by the Board of Regents, University, Graduate College, and individual graduate programs determine admissibility. Applicants must meet necessary minimum admissions requirements as established by the Graduate College as well as all graduate program requirements. Meeting requirements is rarely a sufficient basis for admission; admissions decisions are competitive and take into consideration all the application materials in a holistic manner.

Application deadlines vary by department. Prospective students are encouraged to reach out to the graduate coordinator and other faculty in their desired department to get information on the program and the department’s application process. Through the standard university and Graduate College curricular and program review process, department faculty determine program admissions requirements beyond the Graduate College minimum requirements. All admissions requirements are available for each program here in the Graduate Catalog. Please note that applicants must submit all required admissions materials via our online application system, the Grad Rebel Gateway. The process below describes the Graduate College requirements; please also follow the requirements, guidelines and deadlines of your degree program of interest.

UNLV is an EEO/AA/Title VI/Title IX/Section 504 institution. All qualified applicants to the Graduate College, and admitted students, will receive equal consideration without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, disability, or covered US veteran status.

1. Admission Requirements
   1. Requirements for Applicants
   3. English Proficiency Requirement for GAs
   4. The Admission Process
      1. Application Procedures for International and Domestic Applicants
      2. Requirements and Procedures for International Applicants
   5. Transfer Credit Policy
   6. Readmission to the Graduate College
   7. Change of Program, Plan, or Sub-Plan
   8. Application Fraud and Revocation of Admission
   9. Full Graduate Standing
   10. Adding or Dropping Classes

Degree Programs
Dual Degrees
Dual degrees are formal programs, where students are simultaneously enrolled in both, that result in the awarding of two degrees. The primary benefit of dual degrees is that the total number of credits required to earn them is reduced. UNLV offers dual degrees between two graduate programs and between a graduate program and a professional program.

For dual graduate programs, students must be admitted to both degrees and both degrees will be conferred simultaneously in the same semester even if all requirements for one are completed before the other.

For dual programs between a graduate degree and a professional degree in the Boyd School of Law, Medical School, or School of Dental Medicine, students must be simultaneously enrolled for the majority of both programs.

On the recommendation and approval of both the graduate program and professional school, the professional degree may be conferred slightly prior to the graduate degree. However, in these special situations the graduate degree must be conferred within one year (three semesters, including summer) of the professional degree, or the student will be required to complete all the requirements of the standalone graduate degree in order for that degree to be conferred.

Below is a list of currently approved dual degree programs.

- Doctor of Philosophy - Educational Psychology & Juris Doctor
- Doctor of Philosophy - Electrical Engineering & Master of Science - Mathematical Sciences
- Doctor of Philosophy - Higher Education & Juris Doctor
- Doctor of Philosophy - Special Education & Juris Doctor
- Master of Arts - Economics & Master of Science - Mathematical Sciences
- Master of Business Administration & Doctor of Dental Medicine
- Master of Business Administration & Master of Science - Hotel Administration
- Master of Business Administration & Master of Science - Management Information Systems
- Master of Business Administration & Juris Doctor
- Master of Public Health & Doctor of Dental Medicine
- Master of Science - Hotel Administration & Master of Science - Management Information Systems
- Master of Science in Engineering - Electrical Engineering & Master of Science - Mathematical Sciences
- Master of Social Work & Juris Doctor
Concurrent Degrees
Graduate students may pursue a concurrent or double degree. Concurrent or double degrees may be earned when a student enrolls in two programs simultaneously. Students who are concurrently enrolled in more than one graduate degree must complete all of the requirements for both degrees; there can be no “sharing” of degree requirements or course credits. Graduate students must complete the full application process for each degree and receive permission from both academic departments and the Graduate College dean by submitting a Concurrent Degree Enrollment Approval form.

Accelerated Degrees
Accelerated degrees, sometimes referred to as integrated bachelor’s to graduate programs or undergraduate bridge programs, provide an accelerated path to earning both a baccalaureate and a graduate degree. All requirements for both the baccalaureate and graduate degrees must be met, but depending on the program there may be some shared course work. Such programs help recruit high-achieving undergraduate students into UNLV graduate programs and provide them with challenging academic experiences and expanded opportunities.

Accelerated programs are approved through the standard university and Graduate College curriculum and program approval processes and are not available for individual student design. A list of approved accelerated programs is below.

- Doctor of Philosophy - Electrical Engineering
- Doctor of Philosophy - Electrical Engineering & Master of Science - Mathematical Sciences
- Doctor of Philosophy - Mechanical Engineering
- Master of Architecture
- Master of Arts - Economics
- Master of Arts - Political Science
- Master of Healthcare Interior Design
- Master of Science in Computer Science
- Master of Science in Engineering - Electrical Engineering
- Master of Science in Engineering - Electrical Engineering & Master of Science - Mathematical Sciences
- Master of Science in Engineering - Mechanical Engineering
- Master of Science - Biomedical Engineering
- Master of Science in Aerospace Engineering
- Master of Science - Materials and Nuclear Engineering
- Master of Science in Engineering - Civil and Environmental Engineering
- Master of Science - Management Information Systems

Requirements for Applicants
Applicants must meet the following academic requirements:

1. Hold a four-year baccalaureate degree from a regionally accredited institution in the United States or an approved international equivalent.
2. Have a minimum overall undergraduate grade point average of 2.75 (4.00=A), or a minimum 3.00 GPA (4.00=A) for the last two years (60 semester credits) of study.

Policy on English Proficiency Requirement for Graduate Admissions
International applicants must provide proof of English proficiency. Applicants are exempt from this requirement if they are from countries where English is the native language. Applicants who have received a post-secondary degree from an institution where English is the primary language of instruction may also be exempt. These applicants must provide proof of the language of instruction in order to be exempt. The final determination is made by the Graduate College.

Applicants may submit either official or unofficial copies of English proficiency scores for initial application evaluation. Applicants may send official scores to the Graduate College through the testing agency, upload unofficial score reports into their application Grad Rebel Gateway, or email unofficial score reports to internationalgrad@unlv.edu. Students admitted with unofficial scores will be conditionally admitted and must submit official exam scores by the deadline specified on the Certificate of Admission. Test scores must be less than two years old at the time of application.

Acceptable scores that evidence sufficient English proficiency for each test are as follows:

Test of English as a Foreign Language (TOEFL)
- Paper-based: Total minimum score 74
- Computer-based: Total minimum score 213
- Internet-based: Total minimum score 80

Pearson Test of English (PTE)
- Minimum score: 65

International English Language Testing System (IELTS)
- Minimum score: 6.5

Michigan Test of English Language Placement (MTELP)
- Minimum score: 85

Graduate departments may require a higher minimum score for admission.
**Exceptions**

English Speaking Countries Exempt from Testing:

- Antigua
- Australia
- Bahamas
- Barbados
- Barbuda
- Belize
- British Guyana
- British Virgin Islands
- Canada (except for Quebec)
- Dominica
- Irish Republic
- Jamaica
- New Zealand
- St. Kitt & Nevis
- St. Vincent & Grenadines
- Trinidad and Tobago
- United Kingdom
- U.S. Virgin Islands

With the support of the academic department, the Graduate College may accept the following scores for applicants with cumulative GPA of 3.75 or higher (4.0 scale). In addition to the GPA requirement, the academic department must provide evidence of academic excellence as rationale for such an exception.

Any requests for exceptions must be submitted to the Graduate College with support from the academic department/unit chair and graduate coordinator. Scores lower than the following will NOT be considered for exception:

**Test of English as a Foreign Language (TOEFL)**
- Paper-based minimum score: 68
- Computer-based minimum score: 210
- Internet-based: 77

**Michigan Test of English Language Placement (MTELP)**
- Minimum score: 80

**Pearson Test of English (PTE)**
- Minimum score: 55

Any requests for exceptions must be submitted to the Graduate College with support from the academic department/unit chair and graduate coordinator, and a statement explaining evidence of the applicant’s academic excellence. Scores lower than those listed above will not be approved. Any students admitted on this type of PEP exception will be required to visit with the UNLV English Language Center (ELC) for an assessment upon arriving on campus and take any courses prescribed by the ELC to remedy any English language deficiencies. Failure to complete prescribed courses within the time frame stipulated by the ELC will result in separation from the university.

**English Proficiency for Graduate Assistants**

All new international students who are first-time graduate assistants at UNLV without sufficient Proof of English Proficiency (PEP) will be required to take the Duolingo Test. This includes all graduate assistants who will be advising or teaching students as an instructor, teaching assistant, or lab supervisors; research assistants; and graduate assistants with other professional duties. The Duolingo Test must be taken before the start of the semester the GA intends to work at UNLV. Specifically, the last day to take the Duolingo Test will be the Friday before classes start. International GAs that cannot provide sufficient PEP or pass the Duolingo Test cannot serve in a teaching capacity during their first semester as a GA. GAs that are offered teaching assistants and do not meet the requirements of PEP/Duolingo will be reassigned to non-teaching duties their first semester as a GA. Please see the Graduate Assistant Handbook for more information about English Proficiency requirements for international GAs.

**The Admission Process**

1. Applicants must apply online via the UNLV Grad Rebel Gateway system.

2. We strongly encourage applicants to submit unofficial transcripts with the application to decrease processing time. Applicants are responsible for making sure the Graduate College and department receive the appropriate credentials by the required deadlines. All application materials, including transcripts, become the property of the University and may not be released to the applicant or any individual. An application file is created upon receipt of an admission application and fee in the Grad Rebel Gateway.

3. The Graduate College evaluates the application materials to ensure that the applicant meets minimum qualifications, and the applicant’s department reviews the file for sufficient qualifications and competitiveness compared to other applicants.

4. Early submission of all application materials generally facilitates a more expeditious review process through the Graduate College and department.

5. Applicants will be notified of their admission status by email and on the Admissions tab in your Grad Rebel Gateway online portal. Those accepted to pursue a UNLV graduate degree or certificate will receive an electronic Letter of Admission from the Graduate College, which will be posted in the Grad Rebel Gateway. The Letter of Admission is an important document that the student should read carefully and retain as it will contain the terms and conditions of your admission.

6. The student must then log into their MyUNLV account and accept admission. Students who do not accept admission will not be able to enroll in courses.
7. The admission process is only completed upon enrollment in graduate-level courses for the specified term and degree program indicated on the Letter of Admission. Failure to enroll or subsequent withdrawal from all course work during the semester of admission will void the Letter of Admission and result in the student’s separation from their graduate program.

8. If an applicant does not complete the admission process, the student must reapply and submit another application processing fee to be considered for admission in a future semester. Materials from the previous admission, such as official transcripts, may be used if they are still on file with the Graduate College. Official transcripts are kept within the Graduate College for a minimum of one year.

Note: Occasionally a student may be admitted with some academic deficiencies. If so, the admission will be contingent on the deficiencies being corrected by completing courses by the deadline specified on the Certificate of Admission (generally early in the graduate program). A student may also be required to register for internship credits, or related graduate course work, to remedy a deficiency related to lack of work experience or field experience prior to admission. Students needing more than two courses are advised to consult with the department for a recommendation on which courses they should take to meet the prerequisite admission requirements. These courses taken to remedy deficiencies identified at admission will not be applied toward the advanced degree. Most College of Education departments require a minimum of 18 undergraduate credit hours in professional education courses. Nevada professional certification may be considered as fulfilling this requirement.

Application Procedures for Domestic and International Applicants

All admissions requirements are available for each program here in the Graduate Catalog.

To apply to the Graduate College, submit the following admission materials for consideration:

- A completed application: The online application system, called the Grad Rebel Gateway, is available to UNLV students. International applicants must submit a completed Confidential Financial Certification form and appropriate proof of funding to International Graduate Student Services. Before an I-20 can be issued, students must satisfy the financial eligibility requirements, and receive their Letter of Admission from the Graduate College. I-20s will not be issued after July 1 if admitted for fall semester and December 1 if admitted for spring semester.

- for you to fill out online by selecting the “Apply” link on the Graduate College Future Students page at https://www.unlv.edu/graduatecollege/futurestudents.

- A nonrefundable admission application fee, payable to the UNLV Board of Regents by check, money order, or online by credit card.

*Note: Applications and materials will not be processed until the application fee is received. Applicants to multiple UNLV graduate programs must pay the admission application evaluation fee for each application filed. Denied applicants, who later seek admission to the same or other UNLV degree program, are required to pay a new application fee to cover processing.

- One transcript from every post-secondary institution the applicant has attended (whether or not a degree was earned), showing all course work, extension and correspondence work, any degrees earned, and the dates that those degrees were awarded. Unofficial transcripts will be accepted as part of the application process. However, if an applicant is admitted, official transcripts will be required by the date specified on the Certificate of Admission.

- All new applicants (international and domestic), EXCEPT those applying to programs in the College of Engineering or to Management Information Systems or Economics, are required to provide a course-by-course evaluation of all foreign credentials from one of the external evaluating agencies listed below. Foreign credentials refer to transcripts from educational institutions outside the United States. When ordering your foreign credential evaluation, please be sure that your grade point average (GPA) is calculated and included in your agency evaluation.

  - The UNLV Graduate College accepts foreign credential evaluations from any current member of the National Association of Credential Evaluation Services (NACES) with a course-by-course evaluation, U.S. equivalency for each credential, and grade point average (GPA) included. For a list of all current members, please visit their website.

*Note: Only transcripts sent directly from the institution are considered official. Failure to disclose all course work and/or degrees awarded will result in rescission of admission.

Send Graduate College admission materials to:

University of Nevada, Las Vegas
Graduate College
FDH 352 Box 451017
4505 S. Maryland Parkway,
Las Vegas, NV 89154-1017

Applicants must submit admission materials by the application deadline for your program of interest. Because departmental requirements vary, please be sure to refer to your department of interest for specific application requirements. Many graduate programs require some or all of the following documentation:
• One official transcript from all post-secondary institutions attended, showing all degrees and the dates awarded and extension and correspondence work. Only transcripts sent directly from the institution are considered official. Some departments only require unofficial transcripts; please check with your department of interest to confirm. If you attended a post-secondary institution in certain countries, additional materials must be submitted as outlined below:
  
  o Credentials from China: Students who have completed a degree in China must provide copies of the original language transcripts and a copy of their Degree Certificate and Graduation Certificate. Documents verified by the China Higher Education Student Information and Career Center (CHESICC) or the China Academic Degree and Graduate information Center (CDGDC) are also accepted.
  
  o Credentials from India: Consolidated marks sheets are acceptable if yearly mark sheets are not available. Mark sheets must also be issued by the degree-granting institution. Mark sheets from affiliated colleges, are not acceptable or considered official. Students who have completed a degree in India must also provide a copy of their Provisional Certificate.

• Letters of recommendation sent by former instructors, employers, or other professionals who can evaluate the applicant’s potential to complete graduate study.

• Resume, portfolio, etc. Some departments may request additional materials (i.e., resume, portfolio, statement of purpose, writing samples, and the like).

• Standardized test scores. In addition, many departments require satisfactory composite scores on the Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), Miller Analogies Test (MAT), or other standardized tests. Some examinations are given only four or five times a year and require that registration be completed a minimum of six weeks prior to the test date. With the exception of the Miller Analogies Test (MAT), students may take the required tests online, or at other colleges or universities if taking them at UNLV is inconvenient for the applicant.

Requirements and Procedures for International Applicants

Credentials not written in English must be accompanied by an English translation that is certified as true by a university official, an official representative of a United States embassy or consulate, the United States Information Service, the United States Education Foundation, or an approved professional translating. Prior to arrival in the United States, contact International Graduate Student Services with questions. After arrival in the United States, contact International Students and Scholars for all immigration related questions and your department or faculty advisor for program related questions.

Transfer Credit Policy

With the department and Graduate College approvals, no more than one-third of the minimum number of credits required for the degree (not including credits for thesis, dissertation, and professional/scholarly papers) may be transferred from a regionally accredited graduate degree granting institution. Please note that courses used to fulfill requirements for a degree at UNLV or elsewhere are prohibited from use toward another degree. For UNLV Non-Degree Seeking graduate students, a maximum of 15 graduate credits (with grades of B or better) taken at UNLV may be applied toward a graduate program, with the approval of the student’s department and the Graduate Dean. Graduate work from other regionally accredited institutions with a grade of B or higher (3.00, A=4.00) may be transferable into a degree program subject to departmental and Graduate Dean approval. Grades of B- or lower, and courses graded on a satisfactory pass/fail basis, are not transferable into graduate degree programs.

Readmission to the Graduate College

Students may apply for a second different master’s degree or a doctoral degree after completing a master’s degree. In these cases, students must submit a new application for admission, the required admission processing fee, and all supporting credentials required by the Graduate College and the new department or program.

If a student is admitted to a graduate program but fails to complete that program, and this happens two times in two different programs, that same student may not be eligible for future admission to the Graduate College.

UNLV will not issue more than one of the same graduate degree or certificate to a student regardless of the track or concentration. Students may not be admitted to a graduate degree or certificate program they have already earned from UNLV.
Change of Program, Plan, or Subplan
Students are admitted to pursue an advanced degree or certificate in a specific department or program. To change to another department (or program) or degree/certificate (called a ‘plan’), students must submit a new application for admission, the required application fee, and all necessary admission credentials to the Graduate College. In order to change a concentration or track (called a ‘subplan’) within a degree/certificate, graduate coordinator or department chair approval is needed.

Application Fraud and Revocation of Admission
We assume that the information provided on the application for admission is complete and accurate. Subsequent evidence to the contrary may result in the admission being revoked and the loss of any credit or degree stemming from the admission.

Admission Status and Classification of Students
Full Graduate Standing
Students accepted to pursue a program leading to an advanced degree are classified as having Full Graduate Standing. The Full Graduate Standing classification allows students to plan and matriculate in a degree program, to request formation of an advisory committee, and to be assigned or select a faculty advisor, depending on the degree program.

Provisional Graduate Standing
Students whose previous academic records are not strong enough to merit Full Graduate Standing may be granted probationary admission and classified as Graduate Provisional. This classification does not apply to students with deficiencies or insufficient undergraduate credits in the chosen field of study. The Graduate College and the student’s department determine placement in this classification.

When the Graduate College receives confirmation of the appropriate grades being earned in the required course work, the student will be given Full Graduate Standing status. A student may only be admitted as a Graduate Provisional student once.

Conditional Admission
A Conditional Admission status does not reflect an applicant’s ability to conduct graduate-level work, but is granted when the applicant must complete course deficiencies as part of the program or meet some additional requirements before finalizing admission, i.e., a final transcript of course work in progress while applying for admission, a missing letter of recommendation or standardized test score, etc. Graduate Provisional students may also be classified as Conditional Admission. The Certificate of Admission will specify which requirements must be met and the date by which they must be met in order to maintain admission to the program. Failure to meet the condition(s) will automatically cancel the student’s admission and result in separation from the student’s graduate program.

Non-Degree-Seeking Graduate Students
The Non-Degree-Seeking Student status is assigned to individuals with baccalaureate degrees who wish to take graduate courses but not yet pursue an advanced degree. Applications for admission as a Non-Degree-Seeking Graduate Student are processed through the Graduate College. Generally, Non-Degree-Seeking Students may enroll in up to 15 credit hours per semester, but they are not eligible for federal financial aid or Graduate College scholarships or fellowships.

Graduate programs and faculty determine whether non-degree-seeking graduate students may enroll in their graduate courses. Department faculty are responsible for determining the adequacy of preparation of Non-Degree-Seeking Students before allowing them to take upper-division or graduate courses which are open to Non-Degree-Seeking Graduate Students. The student should check with the department about graduate courses accessible to Non-Degree-Seeking Students. It is the student’s responsibility to provide proof of adequate preparation.

A Non-Degree-Seeking Graduate Student wishing to seek a degree must apply for admission to the Graduate College and pay an application processing fee. Non-Degree-Seeking Graduate Students may transfer up to 15 UNLV credits with grades of B or higher into a degree program. Courses taken as a Non-Degree-Seeking Graduate Student count toward the degree program at the discretion and approval of the graduate coordinator, and/or department chair, and Graduate Dean.

Undergraduates Taking Graduate-Level Courses
Undergraduates with a minimum of 90 semester hours of credit and a 3.00 or higher grade point average may enroll in graduate courses. Students in the Honors Program must have a minimum of 45 semester hours of credit and a 3.00 or higher grade point average. The Approval for an Undergraduate to Enroll in Graduate-Level Course Work Form must be completed and necessary signatures obtained and approved by the Graduate College prior to registration. Students may enroll in up to six hours of graduate-level courses during one semester.

Reserving Courses for Graduate Credit. Upon approval, and pursuant to the policy above, UNLV undergraduates may take 500/600/700-level course work and reserve the credits earned for possible future use in an advanced degree program. Course work reserved for graduate credit may not be used to satisfy baccalaureate degree requirements.

Graduate Courses for Undergraduate Credit. Upon approval, and pursuant to the policy above, UNLV undergraduates may take 600/700-level course work for use in an undergraduate degree program. Courses used in an undergraduate program may not be applied toward an advanced degree at a later date.
Graduate Students Taking Undergraduate-Level Courses
If a graduate student takes undergraduate-level courses in their graduate career, the enrollment will be marked as cross-career on the student’s official transcript and those courses will not contribute to earned credits or GPA. If graduate students need undergraduate-level courses to show as earned credit on their transcript for employment or educational reasons, they must submit an undergraduate non-degree seeking application through the Office of Undergraduate Admissions and register for those courses in an undergraduate career.

If a graduate student takes undergraduate courses in their graduate career and needs them changed to earned credit at a later date, they will be required to submit an undergraduate non-degree seeking application to Office of Undergraduate Admissions in order for the coursework to be moved.

Immunization Requirements
Nevada Administrative Code (441A.755) requires that all students, who attend courses on campus, must provide documentation of having received the following immunizations unless excused by religious belief or medical condition and with an approved waiver on file with the Office of the Registrar:

1. Two doses of the measles, mumps, and rubella (MMR). The first dose must be on or after your first birthday.
2. One dose for tetanus/diphtheria (TD), taken in the last 10 years

Copies of immunization records must be sent to the Office of the Registrar, either: via fax at: 702-895-1118 or hand delivered (Student Services Complex – SSC-C, near the Tropicana Garage). If students feel comfortable sending these documents via email, they may also email a copy to registrar@unlv.edu

Acceptable Proof of Immunization:
- Childhood immunization card signed by a physician or nurse, including the facility name and address
- High school or college records
- Military, state, or county records
- Lab report that indicates immunity (titer test for MMR)
- Health department records

Nevada Residency
The UNLV Registrar’s Office determines the Nevada residency of graduate students according to the Board of Regents regulations and the laws of the State of Nevada. Persons, such as Nevada certified school teachers and Armed Forces personnel stationed in Nevada, are normally accorded residency status. A full statement of the regulations is available online.

Registration Policies
The University outlines specific registration procedures in the Registrar’s Calendars and Schedules page, which is updated prior to each semester by the Registrar’s Office. Students must register for classes using the procedures outlined in the class schedule including enrolling by the dates and times specified for each semester or special session. Students paying fees after the date and time specified in the schedule may be charged a late fee. An administrative drop may result for nonpayment of fees. The registration or enrollment of a student ineligible to attend the University is subject to immediate cancellation. A full-time graduate student is one who is enrolled in nine or more semester credits, or six credits per semester for UNLV graduate assistants. For additional information regarding full-time and half-time status please visit the Academic Policies Definition of Full-Time and Half-Time Students section of the Graduate Catalog.

Adding or Dropping Classes
Students may add or drop a course up to the close of the late registration period. After this date, and with approval, students may make changes only when the circumstance is sufficiently extraordinary to warrant an exception.

Dropping/Withdrawing from Classes
The terms drop and withdraw are used interchangeably. The academic policies and calendar dates for dropping and withdrawing are the same. Drop generally refers to dropping one or more courses during a given semester. Withdrawal generally refers to the act of dropping all courses during a given semester.

A student may drop or withdraw from full semester courses during the free drop period (first ten weeks of the fall or spring semester) without a grade. The instructor must provide a preliminary evaluation of the student’s grade before the end of the free drop period. No drops or withdrawals will be permitted after the end of the free drop period as published in the current class schedule (see Grades and Examinations). Refer to the appropriate class schedule for drop dates for special modular courses, short courses, extended education and summer term courses. Students who stop attending class and fail to file an official drop request form with the Registrar will receive a grade of F.

A student who has officially dropped a class and who is no longer registered for credit or audit is ineligible for further attendance in that class.

Cancellation of Registration
The University reserves the right to cancel any registration in specific courses for which the student is ineligible. The registration of any student who is ineligible to attend the University is subject to immediate cancellation. The University also reserves the right to cancel the registration of an individual whose attendance, in the opinion of the appropriate administrative officials, would not be mutually beneficial to that person and to the institution.
Cancellation of Courses and Programs
The University reserves the right to cancel any registration in which the enrollment is insufficient to warrant offering the course and/or to eliminate, cancel, phase out or reduce in size courses and/or programs for financial, curricular or programmatic reasons.

Repeat Policy
Any course may be repeated, regardless of the grade received. Credit will be allowed only once for successful completion of the course, except for courses designated in the catalog as allowable repeats; these courses may be repeated only up to the maximum number allowed in the catalog and MyUNLV system. A student may repeat any UNLV course once at UNLV and not have the original grade included in the computation of the grade point average. The repeat grade must be on the same grading option as the original grade. The original grade will remain on the student’s academic record with suitable notation. For courses repeated prior to February 1971, both the original grade and the repeat grade are included in the grade point average. Students are responsible for providing the Registrar’s Office with written notification when a repeat course is completed. Computer-printed grade reports may not initially compensate for repeated courses. Grade point averages, credits attempted, and credits earned will be manually adjusted.

When a course is repeated more than once, only the original grade is omitted in computing the grade point average. The fact that UNLV has granted a degree to a student shall not preclude the student’s right to repeat a course for the purpose of improving a grade. However, class standing will not be affected by the results. A student receiving a final grade of ‘F’ in a course can obtain credit by pre-registering for the course, repeating the class work, and receiving a passing grade.

A failed course cannot be challenged by examination. A failed course does not have to be repeated unless the course is a specific college or department requirement. A student may be allowed to repeat any course once and not have the original grade computed in the graduation GPA. If a course is repeated more than once, only the original grade is omitted in computing the graduation GPA.

Unit of Credit
The unit of credit, or semester hour, is generally defined as one 50-minute lecture per week for a semester. Two or three laboratory hours per week, depending on the amount of outside preparation required, usually carries the same credit as one lecture hour. Please note that graduate courses that are cross-listed with undergraduate courses require the graduate student to complete additional, more advanced work in the course and they may be required to meet for some limited, additional hours to fulfill course requirements as indicated on the course syllabus.

Transcripts of Credit
Official transcripts bear the University Seal, the Registrar’s signature, and reflect all academic work attempted at UNLV. Upon written request, the Office of the Registrar will issue official UNLV transcripts. Requests should be made at least one week before the date the transcripts are needed. The Registrar will not issue transcripts for any student having a delinquent indebtedness to the University. In addition, transcripts of work from other institutions will not be issued. Work in progress does not appear on the transcript until the semester or registration period officially ends. Transcripts are not prepared during final examination, grade recording, and registration periods.
Tuition & Fees

Fees: All fees assessed by the university are subject to change by the Board of Regents. Every effort is made to keep fees low as possible while rendering the desired level of service. Nonresident fees are calculated to cover a major part of the direct cost of instruction.

Nevada Residency for Tuition Purposes

Residency Decisions

The Board of Regents establishes Nevada residency for tuition purposes regulations. For admitted degree-seeking graduate students, residency status is determined at the time of admission to a degree-seeking program and is indicated in the official Letter of Admission from the Graduate College. Please note that new graduate students who live in Nevada, and/or those who have held Nevada residency in the past, may still be classified as out-of-state students upon graduate admission. These students will need to follow the directions on their admission letter and apply for residency in order to be reclassified as a Nevada resident. Non-degree-seeking graduate students will generally be classified as out-of-state until and unless Nevada residency is determined via the residency application process. If the residency status is not “Nevada,” out-of-state tuition will be assessed. Residency decisions are made during the application process and will be posted on the admission acceptance letter.

Applying for Nevada Residency

To apply for residency, download and complete the Residency Application and include photocopies of supporting documents. Mail or fax documentation to the Office of Admissions by the application deadline listed in the Academic Calendar and Registration Guide. Please note that Residency is handled and determined by the Office of Undergraduate Admissions for all UNLV students, including graduate students.

Special Fees and Charges

1. An application fee of $60 (domestic) is charged to any person applying for admission. The application fee for International applicants is $95.00, in addition to fees for foreign credential evaluation if necessary. All application fees are non-refundable and not applicable to any other applications.

2. As approved by the NSHE Board of Regents and UNLV, special charges may be accrued for the following:
   a. Courses requiring equipment, facilities or materials not available on the campus, i.e., golf and certain field courses
   b. Courses requiring use of high technology equipment, e.g., computer courses or health profession courses
   c. Private instruction in music and similar arts
   d. Noncredit courses, conferences, workshops, postgraduate professional seminars and similar educational offerings
   e. Courses requiring field trips or travel
   f. Personal expenses incurred by students in connection with field trips
   g. Lab and computer usage fees
   h. Differential tuition in select graduate programs

3. The following fees are either assessed or identified at registration:
   a. A late registration fee of $25 per day to a maximum of $50 for initial registration beginning on the first day of the semester. Summer Term students are assessed a late registration fee of $10 per day until the end of the late registration period for that Summer Session. In case the time designated for registration is not adequate, the Registrar may defer the assessment of this fee for one day.
   b. Returned Check Fee. Personal checks are accepted in payment of fees owed to the university; although no counter checks or checks altered in any way are accepted. A collection fee of $25 is assessed for any check returned unpaid by a bank. The check must be made good within 10 days or it will be turned over to a collection agency, and the student will be liable for all collection costs and any other related costs. If a personal check is returned from the bank, the university reserves the right to place the student on a cash basis only and withdrawal procedures may be initiated at the option of the university. A stop payment placed on a check does not constitute withdrawal from courses. Official withdrawal must be processed as returned checks and are subject to the same fees and collection cost.
   c. A graduation and program completion fee of $75 will be billed to the student’s account after the application for graduation is completed through MyUNLV. Students who apply after the application deadline will be assessed a $20 late fee. If a student fails to meet graduation requirements after a diploma has been ordered, $2.50 of the fee is forfeited. A graduation application is good for two consecutive semesters. If a student still has not graduated after the two semesters have concluded then the student will need to submit a new application along with another $75 fee.

Student Health Fee

The Student Health program fees for Fall, Spring, and Summer semester classes are not to be confused with the mandatory UNLV Graduate and Professional Student Health Insurance plan. Student Health Program fees are applicable to all students regardless of health insurance status, and they are used to support various services offered by the Student Wellness Center.

The Student Health program facilitates on-campus educational experiences and leadership opportunities for all UNLV students; is responsible for public health protection of the UNLV community; provides access to health care and provisions, and coordinates health needs for students; provides student counseling and psychological services; and includes the Jean Nidetch Women’s Center, which caters to all students.

Mandatory Graduate and Professional Student Health Insurance

Effective Fall 2013, students who are admitted into a graduate or professional program and are enrolled in 9 credits (regardless of the course level) in a semester, and all graduate assistants, will be automatically billed for student health insurance. It is then incumbent upon those students who already have health insurance to complete the UNLV online waiver form to waive out of the UNLV student health insurance. Once approved, a health insurance waiver is good for one academic year.
Mandatory Graduate and Professional Student Health Insurance
The cost for the UNLV Graduate & Professional Student Health Insurance in academic year 2018-2019

Graduate, Law, and International Students
Annual: $2,523.15
Fall 2018 Only: $1029.57
Spring/Summer 2019 Only: $1,493.58

Nursing Graduate Students
Annual: $2,523.15
Fall 2018 Only: $884.83
Spring/Summer 2019 Only: $1,638.32

Dental Students
Annual 2018/2019: $2,380.33
Spring/Summer 2019 Only: $1,180.38

School of Medicine Students
Annual 2018/2019: $2,380.33
Spring/Summer 2019 Only: $1,180.38

Please note that all graduate and professional students who do not waive out of the UNLV Student Health Insurance for the Spring semester will be enrolled in the Spring/Summer insurance plan; these are combined and there is not an option to be enrolled in Spring only.

Grants-in-Aid
Each student is expected to pay all assessed fees on registration day unless a grant-in-aid is secured prior to registration day. Students are responsible to pay their portion on time. Late fees and/or withdrawal may be initiated for a student’s portion and/or reported to a credit bureau. Legal proceedings may be initiated for any default accounts receivable.

Delinquent Accounts
A student or former student having a delinquent account receivable or an overdue student loan of any amount with any division of the Nevada System of Higher Education shall not be permitted to register, receive any type of transcript of records, grades, diploma or certificate or obtain services from any division. The university reserves the right to refer any delinquent account to a collection agency and/or report to a credit bureau. Legal proceedings may be initiated for any delinquent account.

Deferred Payment Option
Payment Plans are available in MyUNLV self-service to students who are registered for 1 or more credits. There is a $45 non-refundable fee for all payment plans. The $45 fee and the first installment are due by the published due dates in MyUNLV. Failure to pay the first installment will constitute withdrawal from the university. The tuition will still be owed, but the student will not receive credit for the courses. Any delinquent accounts may be reported to a credit bureau. All delinquent accounts not paid as required will be sent to a collection agency. The student is responsible for all collection costs, attorney fees, etc. All students must pay their tuition and fees in full by the published payment deadlines or be on an approved payment plan to be considered enrolled for the semester. All unapproved accounts will be disenrolled. No exceptions. The university reserves the right to deny deferred payment to any student who does not pay tuition and fees as scheduled, including late fees.

Refund of Fees
Students who withdraw from the university receive a refund of fees according to the schedule below, which is subject to change by the Board of Regents. All requests for exception to the refund policy for extraordinary circumstances must be made to Student Enrollment Services or the Fee Appeal Committee. An appeal form is available at Student Enrollment Services, Cashier’s Office or the Bursar’s Office website.

1. For all UNLV students, including auditors, for net credit load reductions and withdrawals from the university, the refund policy is as follows:
   A. WITHIN THE FIRST WEEK OF INSTRUCTION.
      1. 100 percent credit of all fees.
   B. AFTER THE FIRST WEEK OF THE INSTRUCTIONAL PERIOD OF A REGULAR TERM.
      1. 50 percent credit for total withdrawals from all courses until the end of the sixth week. No credit for total withdrawals after the end of the sixth week.
      2. 0 percent credit for partial withdrawals.

2. For all UNLV students, including auditors, for net credit load reductions and withdrawals from the university during the Summer Term, the refund policy is as follows:
   A. Courses dropped prior to the business day before the start of the instructional period will receive a 100 percent credit.
   B. Courses dropped within the first 20 percent of the course period, as defined by Student Enrollment Services, will receive a 50 percent credit.
   C. There will be no credit for courses dropped after 20 percent of the course period has passed.

3. No credit shall be made for health and accident insurance premiums.
4. Modular courses follow different refund policies than stated above. Inquire at Student Enrollment Services for details regarding a particular modular course’s refund policy.
5. Upon written approval of the Vice President for Student Life, a full refund of all registration fees and tuition shall be given upon official withdrawal at any time during the first eight weeks of the semester in the following circumstances:
   A. Induction of the student into the U.S. Armed Forces;
   B. Death of a parent, spouse, child or legal guardian of the student; or
   C. Death of a student.
   D. No refund is made if withdrawal is after eight weeks, regardless of the circumstances. All refunds are made by check, direct deposit, or to the credit card that was used to pay.
6. In most cases, federal regulations require that refunds for students receiving financial aid must be refunded back to the financial aid program rather than the student. For information about exemptions to this policy, please contact Student Financial Services. Dropping below full time for students on financial aid may invalidate eligibility for financial aid. Students may owe UNLV for financial aid refunds.

Room and Board Refund
Students withdrawing from the residence hall will receive refunds according to the terms and conditions of the residence and dining hall contract.

Tuition and Fee Appeals
Appeals regarding financial issues (e.g., tuition refund, tuition waiver, student fees, late fees, etc.) must be submitted separately to the UNLV Student Accounts Office, using their Tuition & Fee Appeal Form. If an appeal involves both an academic and financial issue, the student should submit an academic appeal first to the Graduate College and wait for a decision before commencing with the financial appeal to the Student Accounts Office. For further information concerning the financial appeal process please visit the cashiering and student accounts appeal site.

Graduate Catalog 19
Degree Progression Policies & Procedures

Students should be aware of the Graduate Study Timeline available on the Graduate College website.

Degree and certificate requirements are typically completed under the Graduate Catalog in effect at the time of a student’s admission. However, with departmental and Graduate College approval, the Graduate Catalog in effect during the semester of graduation in which degree requirements are completed may be used. All students seeking an advanced degree or graduate certificate under the Catalog year must adhere to the regulations and requirements outlined herein.

- Committee Composition
- Change of Graduate Advisory Committee

Resources
- Degrees Directory
- Program Handbook
- Graduate College Website
- Graduate College Professional Development Academy & your Retention Progression Completion (RPC) Team
- Comprehensive and Final Examinations
- Final Oral Defense

Advising and Advisory Committee

Advisor

Students are assigned an advisor by their graduate program at the time of admission into the Graduate College. The advisor is typically the Graduate Coordinator, or another Graduate Faculty member selected by the department.

Some degree programs (all thesis and dissertation tracks, and some others) require students to convene a Graduate Advisory Committee (GAC). It is the responsibility of the student to personally select an advisor to serve as chair of his or her Graduate Advisory Committee, and appropriate Graduate Faculty to fulfill the other required roles on the GAC.

Graduate Advisory Committee (GAC)

The Graduate College must approve the Graduate College Representative, and all advisory committee members on the Appointment of Advisory Committee form, before students proceed to work with their advisory committee, sit for exams, defend a prospectus, or otherwise participate in any milestone event involving their advisory committee.

The Graduate Advisory Committee is responsible for guiding the student through the graduate program, assisting the student with her/his professional paper, thesis, or dissertation, and administering the final examination or culminating experience. Advisory committees are mandatory for master’s theses, professional doctoral projects, and doctoral dissertations. Programs with other culminating experiences may opt to require a GAC, and if so, this information must be in the Graduate Catalog and Program Handbook. The primary purpose of the GAC is to train, support, socialize, and educate graduate students via the mentorship model, to elevate them to successful completion of their culminating experience, and to prepare them for career success. Not all graduate degree programs require the appointment of an advisory committee.

Students should consult with their advisor to determine whether or not an advisory committee is necessary. All departmental members of the committee should have expertise in the student’s research area. Master’s and doctoral students must submit the Appointment of Advisory Committee form to the Graduate College before establishing the degree program and before submitting their Prospectus Approval or Advancement to Doctoral Candidacy forms.

Graduate Advisory Committee Composition and Guidelines

1. The GAC is always comprised of a minimum of four graduate faculty filling specific committee roles and responsibilities. These mandatory GAC positions are:
   a. Chair: Chairs must have GFS with full privileges in the student’s home Department/School. This person is the primary advisor and mentor for the student and guarantor of quality and excellence in the final document and defense. This includes but is not limited to:
      1. maintaining high standards of disciplinary excellence;
      2. providing strategic advisement and mentorship to students to help them progress in a timely and successful manner through their graduate programs;
      3. overseeing high-quality, original, rigorous and ethical research;
      4. making sure that the student is aware of, prepared for, and meets all required program milestones and university requirements over their student lifecycle;
      5. advising students on critical professional development skills and opportunities that align with their career goals and pathways;
      6. and preparing students to successfully defend a well-written and appropriately formatted final document.
   b. Two Department/School Committee Members: D/S Committee Members must have GFS with committee rights in the student’s home Department/School. GAC members are also responsible for:
      1. maintaining high standards of disciplinary excellence;
      2. supporting the GAC Chair to provide strategic advisement and mentorship to students to help them progress in a timely and successful manner through their graduate programs;
3. overseeing high-quality, original, rigorous and ethical research;
4. coordinating with the GAC Chair to make sure that the student is aware of, prepared for, and meets all required program milestones and university requirements over their student lifecycle;
5. advising students on critical professional development skills and opportunities that align with their career goals and pathways;
6. and helping to prepare students to successfully defend a well-written and appropriately formatted final document.
7. Graduate College Representative (GCR): Must have GFS with approved GCR rights at UNLV. These faculty may not hold GFS in the student’s home Department/School. See #7 below for additional guidelines regarding the role of the GCR.

1. In addition to the above, students may opt to add extra members to their GAC:
   a. Co-Chair: Must have GFS somewhere at UNLV (either all privileges or committee member designation). This person shares advising responsibilities with the other co-chair.
   b. Additional Committee Member: May hold GFS in any graduate/professional program at UNLV, may be a recognized faculty member at another university, or may be a highly esteemed and accomplished community member with documented expertise in the student’s area of study.

2. Faculty must hold the terminal degree from the same or a very closely related discipline in which they chair or serve as a school/department committee member for master’s or doctoral students.
   a. Case-by-case exceptions may be permitted depending on context (i.e. a DDS chairing an oral biology master’s degree, etc.) via the Graduate College GFS appeal process.
   b. Faculty with non-research-based terminal degrees may not solo chair committees for students earning research degrees.

3. The GAC chair and school/department committee members should be active researchers/scholars/performers and have some experience or demonstrated capacity to successfully advise graduate students.

4. Graduate faculty who have never chaired a GAC before should have a faculty mentor in their department with whom they can consult and seek guidance as needed.

5. GAC chairs and department/school committee members are responsible for ensuring that the student is well-advised, progresses at an appropriate pace, and completes their degree after successful defense of a rigorous, original, high-quality thesis, project, or dissertation. The GAC must ensure student compliance with university requirements and appropriate, ethical, disciplinary standards and practices. Final documents must be formatted correctly and consistently (using the format of your choice --- APA, Chicago, etc.), and must reflect Graduate College thesis/dissertation formatting requirements.

6. Graduate College representatives (GCR) on the GAC must have GCR privileges in order to serve in this capacity.
   a. GCR privileges require that the faculty member have a terminal degree in their field, be employed full-time in a tenured/tenure-track faculty position at UNLV, and hold GFS.
   b. The role of the GCR is to be a representative of the Graduate College on the committee, fully informed of all the policies, procedures, and best practices of student mentorship. The GCR represents the university on committees, and as such must:
      1. mediate as necessary to ensure appropriate, fair, and equitable treatment of students and graduate faculty on the GAC;
      2. ensure appropriate standards of scholarly conduct and research ethics are upheld;
      3. attest that the final document is:
         a. original;
         b. academically rigorous;
         c. publication quality, particularly if serving on a doctoral GAC;
         d. well-written;
         e. appropriately formatted (per both the applicable style guide, i.e. APA, and UNLV thesis/dissertation formatting requirements).
      4. Any concerns witnessed by the GAC should be reported to the Graduate College dean or associate dean, and if necessary, also to the appropriate office on campus (i.e. Compliance, IRB, Student Conduct, Risk Management, Disability Resources, etc.).
      5. GCRs may have substantive expertise related to some or all of the student’s project, but this is not required because their role on the GAC is to ensure general rigor, quality of writing, propriety, fairness, and compliance with all university policies and processes.
Change of Graduate Advisory Committee
If a student needs to make changes to his/her advisory committee after submission of the Appointment of Advisor Committee Approval Form, they may do so with the Change of Advisory Committee form. Students have the right to change their committees as they see fit, however, all ethical and professional rules and guidelines governing research data, creative activities, funded projects, must be considered and followed. Also, please note that when a student requests a change of advisory committee immediately after a failed exam or defense, and prior to the retaking of said exam or defense, the department and/or Dean may not allow the committee change until the current milestone exam or defense is completed, or the student may need to start the process over with her/his new committee. Committee change forms must be approved by the student’s department, academic college, and the Graduate College before the committee change may take effect.

Resources
UNLV Degrees Directory
The UNLV Degrees Directory is a resource for exploring individual degree programs and accessing learning objectives, program handbooks, mission coordinator information, and more. It is important to note that all information contained in the UNLV Degrees Directory is subject to change and students should refer to the Graduate Catalog as the primary source of information regarding your program requirements.

Each graduate program has a handbook to help guide students through their respective programs. The program handbook typically contains more detailed information regarding program benchmarks. It also may provide sample plans of study. The program handbook does not supersede the description of the program requirements in the graduate catalog. Program handbooks are made available on the UNLV Degrees Directory. The purpose of the program handbook is to provide program-specific information for students that is not found in the Graduate Catalog. Students are responsible for understanding and following the policies and procedures delineated in program handbooks and the UNLV Graduate Catalog, as well as the NSHE Code, UNLV Bylaws, and the UNLV Student Conduct Code. Handbook questions should be directed to your Graduate Coordinator; questions about policies and the Graduate Catalog may be directed to the Graduate College.

The Graduate College website provides information for future students, current students, postdoctoral scholars, faculty, and staff and contains detailed information regarding the organization and activities of the unit. It is important to note that all students are responsible for submitting the proper forms to the Graduate College as they progress through their degree or certificate program. Failure to do so may cause a delay in the student’s graduation or certificate conferment.

The Graduate College Professional Development Academy is a virtual support center that provides current UNLV graduate students access to the following:

- Academic support certifications: Free, year-long professional development programs—complete with workshops, cohort meetings, and culminating experiences—in the areas of research, teaching, mentorship, and communication
- Professional development workshops and training: These workshops are hosted by members of the UNLV community and topics cover a broad range of topics from academic and professional topics to personal skills.
- Grad Rebel programs: RAMP (Research & Mentorship Program); Grad Rebel Ambassadors; Grad Rebel Advantage
- Non-academic advising & graduate ombuds services
- Graduate career development resources to help you prepare for life during and after your graduate studies.
- Graduate College events to highlight, celebrate, and build a strong and thriving community of graduate faculty and student scholars and collaborators.

Retention, Progression, & Completion (RPC) Team
The RPC team is an organizational unit within the Graduate College that facilitates the degree progression and completion of each student. The RPC team helps graduate students to assess their progress toward degree completion, understand degree requirements, correctly format and proceed through the thesis and dissertation preparation and submission processes, as well as conducting final degree checks and conferring students’ degrees.

The Plan of Study form outlines the courses the student will complete for the degree or certificate program and the courses listed must fulfill all degree requirements specified in the Graduate Catalog from the student’s first or last semester of enrollment. The Plan of Study form has two parts: part I is an electronic signature page available in your Grad Rebel Gateway portal, and part II is available in the Degrees Directory for the student’s graduate degree or certificate program. The Plan of Study form requires approval of the student, advisor (if applicable), the graduate coordinator or department chair, and the Graduate Dean. Both parts of the form must be electronically submitted at the same time. Please visit the Graduate College website page for Current Students to reference our graduate student timeline and student lifecycle guide that shows what students need to do in each stage of their graduate program.

The most important component of graduate education is the student’s culminating experience. All graduate programs require a culminating experience of some type. This generally takes the form of a Master’s thesis, a doctoral dissertation, a final scholarly research project, a professional paper, a capstone course, a performance, an exam, and/or an oral defense. The culminating experience demonstrates the student’s mastery of their research, scholarship, professional expertise, or creative abilities in their field of study, as well as their written and oral communication skills.

When the culminating experience is a professional paper, thesis, or dissertation (research, professional, or creative) the final document is intended to reflect the student’s research, scholarship, or creative activities, contribute in meaningful ways to the ongoing development of the academic discipline or
professions they are in, and have broader significance or impact. Other forms of culminating experiences generally assess the student’s specific knowledge, expertise, and/or professional skills and abilities.

Students required to complete and defend a final research or creative document (thesis or dissertation) must write and successfully defend (in an oral defense setting) a prospectus describing the nature of their proposed research, scholarship, or creative activity, their methods, and other relevant details prescribed by the student’s disciplinary practices. Once the prospectus is written, successfully defended, and approved by the student’s entire Graduate Advisory Committee (GAC), students must submit the Prospectus Approval Form (for master’s and specialist students) or Advancement to Candidacy form (for doctoral students) to the Graduate College along with a brief written statement describing their proposed thesis or dissertation topic and approach prior to beginning work on their Master’s thesis, doctoral dissertation, or doctoral project (for professional doctoral programs).

After the prospectus is defended and accepted by the GAC and the student has submitted their Prospectus Approval Form (masters) or Advancement to Candidacy Form (doctoral), students may then proceed to work on their final document. If the nature of the research deviates from the written description submitted to the Graduate College then a new prospectus defense must be held and a new prospectus approval form (for master’s and specialist students) or Advancement to Candidacy form (for doctoral students) must be submitted along with a brief written statement describing the new research. Students may not enroll in thesis or dissertation credits until they have completed all required course work and exams, and submitted their signed Prospectus Approval form (for master’s and specialist students) or Advancement to Candidacy form (for doctoral students) to the Graduate College.

Final documents, including theses, dissertations, or other scholarly work, must meet acceptable standards of the given profession. Theses and dissertations must also meet Graduate College standards according to The Guide to Preparing & Submitting a Thesis or Dissertation. The Graduate College and advisory committees expect students to give careful attention to the style and format of the final scholarly or creative documents.

Students must maintain continuous enrollment (a minimum of 6 graduate level credits in any three consecutive semesters, including summer) while working on their degree and final document. Since we cannot graduate and confer a degree upon a student who is not active and enrolled, students must be enrolled in a minimum of 3 graduate-level credits in the semester in which they graduate, even if they have already completed all the required degree credits.

Some master’s programs require a thesis, or offer the option of a thesis, for the master’s degree. All research doctoral programs (Ph.D.s) require a dissertation. Professional doctoral programs require a dissertation or doctoral project, depending on the field of study. The thesis, dissertation, or doctoral project should demonstrate the student’s ability to select a specific problem or topic, assemble pertinent and necessary data, conduct original research, organize ideas and data in a compelling manner, and prepare a clear, well-written document detailing their work.

The minimum number of thesis credits required for a master’s degree program is six. For the doctoral degree program, the minimum number of dissertation credits required is twelve. A grade is not reported for thesis or dissertation credits. When the final copy of the thesis/dissertation is submitted electronically to the Graduate College and approved by the Dean, the title of the thesis/dissertation is posted on the student’s transcript with the number of credits earned. Unless approved for a leave of absence, a student must register for a minimum of three thesis/dissertation or non-thesis/dissertation credits each semester (summer excluded) until the thesis or dissertation is completed, submitted to the Graduate College, and the student graduates. However, students intending to complete, defend, submit a thesis or dissertation to the Graduate College, and/or graduate during the summer term, must be registered for a minimum of three credits. It is strongly suggested that no later than eight weeks prior to the last day of instruction in the term the student will graduate, a draft of the work should be submitted to the advisory committee. The committee will review the thesis or dissertation for any corrections and changes, which must be incorporated before the final examination (oral defense) and submission of the final document to the Graduate College. The completed, unbound work must be resubmitted to the committee at least two weeks prior to the final examination.

After the successful defense, the final document (incorporating all changes and formatted appropriately) must be submitted to the Graduate College. Instructions on how to submit your document for format check can be found on the thesis and dissertation format and submission guidelines page. The Graduate College must approve all theses and dissertations prior to final electronic submission. Both the student and their committee must review and approve your document and style and formatting prior to submitting your final document to the Graduate College for final format check. Upon approval, the Graduate College will provide the student with a final electronic version of their document. The thesis or dissertation must be submitted electronically to ProQuest and Digital Scholarship@UNLV by the posted date each semester. All members of the advisory committee must approve the thesis or dissertation for submission to the Graduate College. Extensions to thesis and dissertation deadlines are granted on a case by case basis with the full permission of the student’s committee and department. Extensions are requested via appeal and must be approved by the Graduate College Dean.

Students are required to run their final document through iThenticate similarity check software prior to their final defense. All doctoral students and all master’s students with 15 credits toward their degree have access to this software through the Graduate College. Students that do not have access should contact the Graduate College to create an account.

Advisory committee members should be sent the full iThenticate similarity report via email a minimum of 7 days before the scheduled defense. At the time of the defense, the student’s committee will attest that they have received copies of the report and approve the percentage as acceptable for the
student’s discipline on the student’s Culminating Experience Form. The first page of the student’s iThenticate similarity report that lists the overall similarity percentage for the final document should be attached to the approved Culminating Experience Results Form before it is turned into the Graduate College.

Matters of format and style with respect to capitalization, abbreviation, quotations, footnotes, citations, bibliography, etc., should conform to the discipline’s standard publishing format (APA, ASA, MLA, Chicago style, etc.). Departments will advise the student on which style manual is appropriate, and members of the Graduate Advisory Committee are responsible for ensuring full compliance with the chosen style guidelines in all final documents. Beyond the style guidelines used in the student’s field, final documents must conform to UNLV formatting and style requirements. The Guide to Preparing & Submitting a Thesis or Dissertation is available on the Graduate College website and these resources, along with workshops provided by the Graduate College each semester, should make it easy for students to conform to UNLV guidelines. Failure to do so will result in mandatory formatting edits to the final document prior to final submission and before a student’s degree can be conferred.

As part of the requirements for completion for all theses, dissertations, and doctoral projects, once final documents are accepted by the Graduate College as complete, approved, and properly formatted, students must then submit their final approved document electronically to ProQuest and Digital Scholarship@UNLV by the posted date each semester. Failure to do so will result in delay of your degree conferral. Please note that documents posted in ProQuest and Digital Scholarship@UNLV will be available online for viewing and download.

Students who have a documented rationale for needing to delay the release of their document to ProQuest and Digital Scholarship@UNLV are required to submit an Embargo Form to the Graduate College. Embargos may be approved for periods of 1, 3, 5, or 7 years and under special circumstances may be renewed. Even with the implementation of an embargo, students still must upload their final document to ProQuest to graduate.

The three article dissertation must include a minimum of three under-review, in-press, or published articles reporting on research or scholarship undertaken as a doctoral student at UNLV (prior research, scholarship, creative activity, articles or publications may not be used in a UNLV dissertation). In addition to the articles, this format requires an introductory chapter, a concluding chapter, and bridge sections introducing and linking each of the articles to form a cohesive document.

The three article dissertation is not an option for all programs. The degree-granting department must indicate in their program handbook whether the three article dissertation format is an approved option for that program of study. Program handbooks are available online through the UNLV Degrees Directory. The department may impose more stringent requirements than those delineated in this document, but additional requirements must be described in the program handbook. If this format is an option provided by the department, the student and their committee may then decide whether or not to use a three article dissertation format, and indicate the intended dissertation type at the time of the dissertation proposal. In this model, an under-review, in-press, or published manuscript serves as a chapter within the larger dissertation. If the committee and department accept this dissertation format, the dissertation must adhere to Graduate College guidelines pertaining to this type of dissertation.

The three article dissertation must have a general introductory chapter that provides an introduction to the student’s topic, a review of the relevant literature and presentation of research questions. Each article chapter must include a contextual explanation of the significance of the article chapter ahead as a “bridge” at the beginning of the chapter, to link it to the broader study of which the chapter is a part. This format must also include a concluding chapter that puts the multiple papers in a broader context and explains their significance to the field, as well as offering suggestions for future research. These introductory and concluding chapters ensure that the multiple papers have a general coherence and constitute a singular whole that is greater than the sum of its parts.

All dissertations must adhere to Graduate College formatting and stylistic guidelines (e.g., acceptable font, use of headings, margins, spacing, tables, appendices, page numbers, etc.), regardless of whether they are presented in a traditional format or a multiple (three or more) article format. The three article dissertation must have a general abstract; whether abstracts are included for respective chapters is at the discretion of the committee and department. References may be presented at the end of individual chapters, or in a single references section at the end of the dissertation. Acknowledgments should be given not at the end of each chapter but in one place for the dissertation as a whole; proper placement is outlined in the Graduate College formatting guidelines. Appendices should be given near the end of the entire dissertation, as outlined in the Graduate College formatting guidelines, rather than at the conclusion of individual chapters. Article chapters must be included in the appropriate Graduate College format, consistent with the Introduction and Conclusion chapters. Students may not simply “add in” a journal article reprint to serve as a dissertation chapter.

For three article dissertation chapters that are published or in press, the student must secure the appropriate copyright from the publisher to include the chapter contents in the dissertation. These must be included in an appropriate Appendix per Graduate College formatting guidelines.

For coauthored articles or chapters used in three article dissertations and approved by the GAC for inclusion, the student must obtain written permission from co-authors to include the chapters in the dissertation. Co-author approvals should be noted in the dissertation, either in the general Introduction or in introductions to respective co-authored chapters, and written permission should be included in a separate Appendix.

For co-authored articles or chapters in three article dissertations, the student must have made a substantial and documented contribution to the work in order to include it in the dissertation. In practice, this may be acknowledged by the student being the lead author on a manuscript. If not the first author on an article, the student should have made substantial contributions to the research design, execution of the study, analyses, and/or
write-up and these must be documented, as well as reviewed and approved by the student’s committee. Quantifying the requirements of “substantial” can be challenging, with best practices in leading peer-reviewed journals (such as PLoS ONE, Nature) offering guidelines for determining sufficient contribution for journal publication authorship, and in turn for inclusion in a dissertation. A student’s contribution in co-authored chapters should be noted and clearly explained either in the general Introduction or in introductions to respective co-authored chapters. A three article dissertation may not include more than one co-authored article/chapter in which the doctoral student is not first author, unless it is included as a fourth or subsequent additional chapter.

Master’s students not pursuing a thesis option may be required to complete a professional/scholarly paper or project as part of the degree program. Students are encouraged to use The Guide to Preparing & Submitting a Thesis or Dissertation available on the Graduate College website when preparing a professional paper. Professional/scholarly papers or projects are not, however, reviewed, retained, or approved by the Graduate College. Some graduate programs require students doing a professional paper to have a graduate committee and to defend their work; other departments incorporate final papers into culminating experience courses or have other requirements. Please check with your department and review the program information and requirements herein for detailed guidelines regarding your own program requirements.

Defense Announcements
Master’s and doctoral defenses are partially public events and must be announced to the campus via the UNLV Master Calendar a minimum of 2 weeks prior to the scheduled event. The date, time, and location need to be emailed to GradRebel@unlv.edu. In addition, students are encouraged to publicize their defense in their department, and in relevant campus and community groups. The first part of the defense is open and public; after the student’s presentation and questions (conducted in a manner that is typical and appropriate to the program/discipline), everyone other than the student and her/his Graduate Advisory Committee should be asked to leave and then the private part of the defense with the student and his/her GAC may commence.

There are three types of program examinations which, depending on the graduate program, students may be required to pass in order to proceed in their graduate program. The following descriptions are general and may be used interchangeably by departments or programs. For the application of these terms and their use by a particular department or graduate program, please refer to the appropriate section of this catalog.

Some departments require doctoral students to take one or more qualifying examinations as part of the admission screening process or for diagnostic purposes not long after admission. The examination may be written, oral, or both.

It is recommended that: 1) the student is assigned a faculty mentor or committee at least one semester in advance to provide guidance on preparing for the exam; 2) there are at least three committee members who evaluate the exam; and 3) timely feedback is provided to students who fail the exam regarding what is needed to pass.

Comprehensive and Final Examinations
Many master’s degree programs require students to successfully complete one or more comprehensive or final examinations. For master’s students, the comprehensive, or final, examination is generally conducted during the last semester or term of enrollment in which a student intends to graduate.

For doctoral students, the comprehensive, or preliminary, examinations are generally taken after all course work, other than dissertation credits, has been completed and always before advancing to candidacy. The examination is intended to test the student’s knowledge of an area of specialization and may be written, oral, or both at the discretion of the department as specified in the Program Handbook. Written department guidelines determine who prepares the exam(s), who reviews and scores the exam(s), the timetable on which the exams are given, and the consequences for failing to pass one or more qualifying exams. Doctoral students do not take final exams, as their dissertation or doctoral project and oral defense constitute the culminating experience.

It is recommended that: 1) the student is assigned a faculty mentor or committee at least one semester in advance to provide guidance on preparing for the exam; 2) there are at least three committee members who evaluate the exam; and 3) timely feedback is provided to students who fail the exam regarding what is needed to pass.

Students must be enrolled for at least one graduate-level credit during the semester in which a qualifying, comprehensive/preliminary, or final examination is taken. In the examination, the student must be able to demonstrate a comprehensive understanding of a broad field of study and a detailed understanding of one or more specialized fields of expertise.

Generally, the advisory committee must unanimously pass the student. If the committee votes unanimously to fail the student or the vote is not unanimous to pass, the student, in consultation with his/her advisor, may request the committee to administer a second examination, depending on departmental policies and guidelines. Generally, depending on department rules in their Program Handbook, two failures of required exams leads to separation of the student from the program for failure to make adequate progress toward degree.

Qualifying exams are a department requirement only (as specified in the Graduate Catalog and detailed in the Program Handbook) and do not require any form to the Graduate College. However, students should submit the results of their comprehensive/preliminary and/or final examinations to the Graduate College in a timely manner. For doctoral students, the results of all required comprehensive/preliminary exams (when done with all of them) should be submitted by completing the Advancement to Doctoral Candidacy Form. For master’s students required to take final exams the results should be submitted by completing the Culminating Experience Results Form.

Advancement to Candidacy
The Graduate College designates the advancement to candidacy status for doctoral students only. Doctoral students are advanced to candidacy upon successful completion of all course work, passing all required qualifying, preliminary,
and/or comprehensive exams, completing and successfully defending the dissertation prospectus, and submitting the Appointment of Advisory Committee, Plan of Study Parts 1 and 2, and the Advancement to Doctoral Candidacy forms to the Graduate College.

Graduate students completing a thesis, dissertation, or doctoral project are required to demonstrate their ability to select a specific problem or topic, master the literature on it, gather/ create and analyze/present relevant data/scholarship/creative products, engage in original research, scholarship, or creative activity, and prepare a well-written final document that is successfully defended publicly and to their entire Graduate Advisory Committee (GAC). The oral defense must be held at least three weeks before the last day of instruction in the term in which the student plans to complete the degree requirements. Students must be enrolled in three graduate credits during the term the oral defense is conducted and the student intends to graduate. The expectation is that thesis and dissertation defenses will be conducted on campus and with the defending student, committee chair, and other committee members present.

Under extenuating circumstances, a student may submit an appeal for remote involvement of the student or committee member to take place. An appeal form must be submitted and approved by the graduate committee Chair, departmental Chair and Graduate Dean for a remote defense to take place. The appeal form should be submitted at the time the defense is scheduled. The appeal form must specify the reason—the undue hardship or emergency—for the request for up to two of the student and committee members to participate remotely. How and where the defense will take place must also be specified; this includes technical capacity and support. Such circumstances might include a faculty emergency or undue hardship on a student related to international travel. To ensure the integrity of the defense process and exchange, at most, two remote connections (e.g., a student and a committee member would count as a maximum of two remote connections) may be allowed at a defense. A Graduate College representative must be present in person. The defense location must have the necessary technical capacity to allow a remote defense. If technical problems interfere with the ability to successfully conduct the presentation and discussion, the defense meeting must be rescheduled.

Satisfactory performance on a final examination will consist of a presentation and defense of the student’s original thesis or dissertation research. At a minimum, the defense consists of an oral presentation open to university graduate faculty, staff, students, and the community, followed immediately by a closed deliberation and vote by the advisory committee. More specifically, the oral presentation will be open to UNLV Graduate Faculty, graduate students, relevant administrators, and invited guests.

The oral presentation may be followed by general questions of clarification from attendees (other than the advisory committee members). The advisory committee and chair may choose to include a session of more in-depth questioning open only to the advisory committee and the UNLV Graduate Faculty. An additional phase of questioning with only the advisory committee and candidate may also be included. The final phase of closed deliberation, and the vote to pass or fail the student, will only be open to the student’s appointed advisory committee, after which the student will be immediately informed of the committee’s decision.

During the oral defense, the student must be able to demonstrate a comprehensive understanding of a broad field of study and a detailed understanding of a more limited field. The advisory committee must unanimously pass the student. If the committee votes unanimously to pass or fail the student, that vote is final. If the advisory committee vote is not unanimous to pass or fail, the student, in consultation with his/her advisor, may request the committee to administer a second examination. The student must wait at least three months before taking the second examination, during which time the department may require additional course work, substantial reworking of the thesis, dissertation, or professional/scholarly paper or project, or whatever is believed necessary to prepare the student for a successful second examination. The Graduate College will not approve third examination requests.

Students must submit the results of their oral defense to the Graduate College immediately after they receive them or it is recommended no more than two weeks prior to the last day of instruction. The results are submitting by completing the Culminating Experience Results Form.

Application for Graduation
Students are responsible for applying for graduation by the semester deadline. Doing so triggers your Graduate College Retention, Progression, and Completion (RPC) Coordinator to review your file and make sure that everything is in order for you to graduate. The graduation application is submitted via MyUNLV. The application must be submitted by the deadline posted on the Graduate College website in order to graduate in your desired semester and participate in Commencement.

If students do not complete the degree requirements in the term anticipated, it is expected that they will do so in the next term. One rollover of the graduation application and fee is allowed to the next term (including summer). If the student does not graduate in the next term, a new application for graduation must be filed, and an additional graduation application fee will be charged. In addition, students must be enrolled in a minimum of 3 graduate-level credits during the term in which they graduate. This applies to all graduates, regardless of whether or not they have completed all required course work or are finishing an Incomplete course or culminating experience.

Granting of Degrees
Degrees are awarded three times a year in May, December, and August. Students must be enrolled in a minimum of 3 graduate-level credits during the term in which they graduate. When students apply for graduation, the Graduate College RPC Coordinator reviews the degree program and all degree requirements to ensure every Catalog requirement for the student’s program has been successfully met and completed. The Graduate Dean certifies that students have met degree requirements, and a recommendation is forwarded to the Board of Regents. If any requirement has not been met, the degree will not be awarded. The degree will be revoked if it is awarded in error, or if it is later discovered that the degree requirements were not met, or if fraudulent claims, unethical student behavior, or other breaches of protocol are later discovered.
Commencement
Commencement is a wonderful celebration of student accomplishments and a lovely ceremony recognizing your transition from student to alumni, from mentee to colleague. Though we encourage all graduates to participate in Commencement, students must complete all degree requirements by the posted semester deadline in order to participate in Commencement.

Students’ names will appear in the Commencement Program issued for the semester of degree completion. Summer graduates’ names appear in the program for the following fall semester. To ensure their name appears in the program, students must release their information through MyUNLV.

Commencement is held twice a year in May and December; August graduates participate in the December commencement. Students completing graduate certificates are not eligible to participate in Commencement unless they are also completing a graduate degree in the same semester.

Disability Resource Center
702-895-0866

The Disability Resource Center (DRC) is the officially designated office for supporting students with disabilities at UNLV. Students with disabilities are encouraged to contact the DRC about support, accommodations, and services available at UNLV. To access services through the office, students must apply to the DRC and provide current documentation of disability for review. Applying for services can be done on-line at drc.unlv.edu/prospective.html.

The DRC collaborates with students, faculty and the university community to facilitate the creation of accessible environments that support student learning and success. The DRC strives to empower students by providing services that are designed to foster student independence, self-determination, and disability pride.

The DRC offers a wide range of supportive services (not special education resources) so that eligible students with disabilities can access and participate in university programs and courses. Services are provided on a case-by-case basis and may include such supports as note-taking services, testing accommodations, alternative media, assistive technologies, sign language interpreting or speech-to-text services, various other resources and referrals, faculty and staff consultation and workshops and presentations of various topics of interest to students with disabilities.

Questions about services or disability related issues should be directed to the DRC by phone at 702-895-0866, or by e-mail at drc@unlv.edu. The center is located on campus in the Reynolds Student Services Complex, Building A in Room 143.

Graduate Student Financial Information
Student Financial Services

The University of Nevada, Las Vegas provides a wide variety of assistance to finance higher education expenses. Grants, scholarships, part-time employment, and educational loans are available to help students with educational costs while attending UNLV. Students are encouraged to explore all possible resources. Financial Aid Administrators are available to discuss the variety of resources available and to assist graduate students in the application process. For further information, contact UNLV Student Financial Aid & Scholarships, located in the Student Services Complex, at (702) 895-3424. The Graduate Student Financial Services office cannot assist with financial aid but may be able to assist with information regarding Graduate Assistantships, scholarships, and fellowships. The Graduate Student Financial Services office is located in the Graduate College on the 3rd floor of the Flora Dungan Humanities building and can be reached via email at GradFinancialSVC@unlv.edu.

FAFSA
Applying for FAFSA is the first step in becoming eligible for student loans, scholarships, and fellowships. Complete the Free Application for Federal Student Aid (FAFSA) online. UNLV’s school code to complete your FAFSA is 002569. Complete and sign your FAFSA with your PIN as soon as possible after November 1st of each year, even if you don’t expect to be eligible for financial aid and/or you do want student loans, because submitting your FAFSA may qualify you for certain scholarships or fellowships.

UNLV’s priority financial aid consideration deadline is November 1st of each year. You may still apply for financial aid after February 1st, however, there may be limited funding from other aid programs.

Federal Loan Programs
Unsubsidized Loans
An unsubsidized loan is available to students regardless of financial need. You must be enrolled at least half time to be considered for this loan. You will be charged interest from the time the loan is disbursed until it is paid in full.

Graduate PLUS Loans
A Graduate PLUS Loan allows graduate students to borrow up to the financial aid cost of attendance less any other financial aid received. Please visit UNLV Financial Aid - Graduate PLUS Loans for more details.

Graduate Assistantships
The University of Nevada, Las Vegas subscribes to the following statement that has been adopted by the Council of Graduate Schools in the United States and by most of the leading graduate schools in North America:

Acceptance of an offer of a graduate scholarship, fellowship, traineeship, or graduate assistantship for the next academic year by an actual or prospective graduate student completes an agreement which both student and the graduate school expect to honor. In those instances in which the student indicates acceptance prior to April 15 and subsequently desires to change plans, the student may submit in writing a resignation of the
Applications must be completed and submitted to the department. An assistantship is normally offered for a full academic year. Assistantships are available each academic year. For full information and policy guidelines regarding the UNLV GA Program, please see the Graduate College website. Below are some key GA policies for your review:

1. Applications must be completed and submitted through your Grad Rebel Gateway account. While deadlines vary by department, the Graduate College recommends that you submit your application by March 1st for the fall semester and by November 1st for consideration for the spring semester.

2. Applications must be submitted to the department which you are seeking employment no later than March 1 proceeding the fall semester in which an assistantship is sought. Applications may be submitted after this date in case of unexpected openings occurring for the fall semester. In rare cases where an assistantship is available for the spring semester, the application deadline is November 15th.

3. An assistantship is normally offered for a full academic year. If a student seeks renewal of an assistantship for the next year, a new application form must be submitted online.

4. A graduate assistantship carries with it a stipend paid monthly for the academic year. This stipend may vary for extramurally funded assistantships. Tuition waivers are usually included with the assistantship. These waivers are approved only for work directly related to the student’s degree program (courses numbered 500 and approved for graduate credit and 700-level courses). This waiver covers a significant portion of the per credit hour fee. The state-funded tuition waiver does not cover differential fees charged for some courses. The tuition waiver covers the full amount of out-of-state tuition. The out-of-state tuition waiver does not apply to students who are enrolled in self-funded programs. Tuition waiver amounts may vary for extramurally funded assistantships.

5. State funded graduate assistantships are not generally available during Summer term. However, tuition waivers are available for state-funded graduate assistants during the Summer Term if the student was on a state GA contract in spring, and has been renewed as a state GA for fall. To take advantage of the summer tuition waiver, the Graduate College must be informed via email at GradFinancialSVC@unlv.edu of your enrollment prior to the start of summer session.

Tuition waivers are not available for undergraduate or audited courses. The above policies may differ for extramurally funded assistantships.

6. Graduate assistants must have graduate standing status in a degree-seeking program at the time they begin their assistantships.

7. New International GAs are required to successfully pass the Duolingo English Test prior to the start of the semester. Students who do not pass the Duolingo English Test will be required to enroll in ESL 580X, a 2 credit oral presentation skills course their first semester as a GA. Students whose graduate assistantship includes instructional duties (lecture, discussion groups, laboratory supervision, tutoring) must receive a successful grade in ESL 580X before resuming instructional duties.

8. Graduate assistants must carry a minimum of six semester hours of graduate credit per fall and spring semester. To carry more than twelve semester hours of credit, the department chair, academic dean, and the Graduate Dean must approve an Overload Petition. Credit hours must be taken in residence to maintain GA eligibility unless an official consortium has been approved.

9. Graduate assistants are expected to spend on average 20 hours per week on departmental duties in either instruction and/or research.

10. Graduate assistants may not accept employment on or off campus without written permission from their faculty advisor, department chair, and Graduate College Dean. Graduate assistants are prohibited from being employed for more than 10 hours per week beyond their assistantship. The request for additional employment can be found in your Grad Rebel Gateway portal under the Forms- Additional Forms tab.

11. Graduate assistants are expected to report in the same time-frame as faculty, i.e., during academic semesters and not during break or vacation times. Graduate Assistants must report one week prior to the start of classes in both the fall and spring semesters.

12. New graduate assistants are expected, as part of their contract obligation, to attend the New Graduate Student Orientation Session and complete the mandatory GA Onboarding video and quiz prior to the start of the semester.

13. Graduate assistantships will be terminated if the student does not satisfactorily perform assigned duties. Assistantships will also be terminated if a student does not make satisfactory progress toward the degree. Unsatisfactory progress includes, but is not limited to: filing a degree program late; receiving a grade of less than B; failing to remove an Incomplete grade after one calendar year; and failing comprehensive or qualifying examinations as required by the degree program.
Offers of assistantships, whether state-supported or extramurally funded, are valid only if they come from the Graduate College Dean.

Graduate Awards: Scholarships and Fellowships

General Information and Guidelines

• Each scholarship/fellowship is awarded for both the fall 2019 and spring 2020 semesters.

• You must remain in good standing in your degree program and enroll in a minimum of 6 graduate credits in each semester of the scholarship/fellowship year (fall 2019-spring 2020) in order to be eligible for an award. Credit hours must be taken in residence to maintain funding eligibility.

• All applicants must apply through the Grad Rebel Gateway.

• All applications must be submitted via the Grad Rebel Gateway and each applicant must upload: a C.V., a statement of purpose (maximum 2-3 typed pages), an unofficial UNLV transcript, and full contact information for at least one recommendation provider. Please note that some scholarships/fellowships have additional requirements, so please read and follow the directions for each scholarship/fellowship carefully.

• The application deadline is December 1st. Note that all letters of recommendation must have been submitted to the Grad Rebel Gateway by the close of business on December 15th.

• Failure to submit all required information and materials by the posted deadline will render you ineligible for scholarship/fellowship consideration.

• Please only apply for awards that you are eligible to receive, per the guidelines below.

• All awards are subject to funding; award amounts change annually. Final award packages/amounts will be noted on award letters to recipients.

2019-2020 Doctoral Fellowship Information

The following awards are only available to doctoral students who are already admitted to, and successfully matriculating in, the Graduate College.

The Barrick Graduate Fellowship (up to $15,000)

Barrick Graduate Fellowships were established by an endowment from philanthropist Marjorie Barrick. These fellowships are given to outstanding doctoral students who have demonstrated excellence in scholarship during their graduate study at UNLV. These fellowships provide up to $15,000.00 stipend; full tuition and fees paid up to 9 credits per semester, full health insurance benefits, and a waiver of out-of-state tuition, if applicable. Applicants must:

• Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;

• be an admitted doctoral student and have completed at least 24 credits of doctoral study in their current degree program (at the end of fall 2019);

• have a minimum graduate GPA of 3.5;

• remain in good standing in their doctoral degree program and complete a minimum of 6 graduate credits in each semester of the fellowship year; credit hours must be taken in residence to maintain funding eligibility.

Criteria for selection will also include demonstrated excellence in research; finalists will be required to participate in a face-to-face interview with the awards committee.

The President’s UNLV Foundation Graduate Research Fellowship (package worth up to $25,000)

The President’s UNLV Foundation Graduate Research Fellowships are funded by gifts to the UNLV Foundation by the Frank Koch Living Trust for the research support of doctoral students. The fellowship award covers tuition, fees, full health insurance benefits, and provides a stipend each semester. Fellowship recipients will receive a waiver of out-of-state tuition during the fellowship year, if applicable. Candidates must be nominated for this award by their department chair or graduate coordinator; each academic department may nominate one candidate for this award. Applicants must:

• Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;

• be a doctoral student working primarily on their dissertation with a minimum graduate GPA of 3.5, though departments may nominate students with a lower overall graduate GPA if their doctoral program grades are higher;

• be nominated by their department chair or graduate coordinator;

• submit the contact information of the department chair or graduate coordinator (that nominated the student) as their recommendation provider;

• remain in good standing in their doctoral degree program and complete a minimum of 6 graduate credits in each semester of the fellowship year; credit hours must be taken in residence to maintain funding eligibility.

Letters of nomination should describe the nominee’s academic accomplishments, dissertation topic, and the nature of the work the nominee would undertake during the fellowship year. Criteria for selection will also include demonstrated excellence in research; finalists will be required to participate in a face-to-face interview with the awards committee.

The UNLV Foundation Board of Trustees Fellowship (package worth up to $30,000 per year)

The UNLV Foundation Board of Trustees Fellowships are made possible by funds to the UNLV Foundation. This prestigious award is granted over four semesters to doctoral students in the final two years of their program. The fellowship award covers tuition, fees, full health insurance benefits, and provides a stipend each semester. Fellowship recipients will receive a waiver of out-of-state tuition during the fellowship
Applications must:
- Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;
- Be a doctoral student in the final two years of their doctoral program during the fellowship;
- Have a graduate GPA of 3.75;
- Submit their dissertation committee chair as the recommendation provider;
- Remain in good standing in their doctoral degree program and complete a minimum of 6 graduate credits in each semester of the fellowship year; credit hours must be taken in residence to maintain funding eligibility.

Letters of nomination should describe the nominee’s academic accomplishments, dissertation topic, and the nature of the work the nominee would undertake during the fellowship years. Criteria for selection will also include demonstrated excellence in research; finalists will be required to participate in a face-to-face interview with the awards committee.

**UNLV Graduate College STEM Fellowship (package worth approximately $20,000)**
The UNLV Graduate College STEM Fellowship is granted over four semesters (fall 2019, spring 2020, fall 2020, and spring 2021) to support newly admitted doctoral students in the fields of Science, Technology, Engineering, Mathematics, and Health Sciences. The fellowship award covers partial tuition up to 9 credits, partial health insurance waiver for the university student health insurance plan, and provides a stipend each semester. Fellowship recipients will receive a waiver of out-of-state tuition during the fellowship year, if applicable. Awardees enrolling in summer credits will be provided tuition benefits to support summer study. Students selected for the fellowship may be asked to participate in no more than four (4) campus events, receptions, or similar occasions each academic year, in support of STEM and graduate education at UNLV.

Applications must:
- Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;
- Be newly admitted to a doctoral degree-seeking program within Science, Technology, Engineering, Mathematics, or Health Sciences at the time the fellowship begins (fall 2019);
- Have a graduate GPA of 3.0;
- Have a FAFSA (Free Application for Federal Student Aid) on record with Financial Aid for the upcoming scholarship year by the deadline;
- Remain in good standing in their doctoral degree program and enroll in and complete a minimum of 9 graduate credits toward their degree program in each semester of the fellowship year; credit hours must be taken in residence to maintain funding eligibility;
- Maintain a graduate GPA of 3.0 or higher.

Criteria for selection will also include demonstrated excellence in research; finalists will be required to participate in a face-to-face interview with the awards committee.

**UNLV Graduate College Summer Doctoral Research Fellowship (package worth approximately $7,000)**
The Summer Doctoral Research Fellowship will be awarded to outstanding doctoral students who have demonstrated excellence in their fields of study and who will reduce their time to degree through summer support. This fellowship will be awarded to doctoral students during summer 2019 based on a competitive application process. This fellowship will cover summer 2019 tuition and fees and provide a stipend. Fellowship recipients will receive a 100% waiver of out-of-state tuition during the fellowship period, if applicable.

Applications must:
- Submit an application with all required supporting documents in Grad Rebel Gateway (see above) by the deadline.
- Have a FAFSA (Free Application for Federal Student Aid) on record with Financial Aid for the scholarship year by the time the award is disbursed (international students are exempt from FAFSA).
- Be an admitted doctoral student and have completed at least 24 credits of doctoral study in their current degree program (at the end of spring 2019).
- Have a minimum graduate GPA of 3.5.
- Email this form to GradFinancialSvc@unlv.edu.
- Remain in good standing in their degree program and enroll in and complete a minimum of 1 graduate credit in any of the summer sessions in 2019.

**2019-2020 Graduate Scholarships**
The following awards are only available to graduate students who met the specified criteria for each award, and who are already admitted to, and successfully matriculating in, the Graduate College.

**The Fred C. Albrecht Alumni Association Scholarship (up to $2,500)**
Alumni Association Scholarships are awarded to outstanding master’s and specialist students who received their bachelor’s degree from UNLV. Applicants must:
- Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;
- Be an admitted master’s or specialist student;
- Have completed at least 6 graduate credits in their current degree program (by the end of fall 2018) and 12 graduate credits (by the end of spring 2019); credit hours must be taken in residence to maintain funding eligibility;
• Have minimum UNLV undergraduate and graduate GPAs of 3.5;
• Hold an undergraduate degree from UNLV;
• Remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

Note: students are eligible to receive this award for a maximum of 4 semesters, or two academic years.

The Donald Carns Scholarship (up to $980)
The Donald Carn Scholarship was established to honor the contributions made by Professor Donald Carns, an accomplished scholar who helped establish the Department of Sociology at UNLV. This scholarship is awarded to outstanding graduate students admitted into a graduate degree-seeking program at UNLV. Preference is given to students who have a demonstrated need.

Applicants must:
• Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline.
• Be an admitted degree-seeking graduate student
• Have a minimum GPA of 3.0
• Have a FAFSA (Free Application for Federal Student Aid) on record with Financial Aid for the upcoming scholarship year by the deadline
• Remain in good standing in their degree program and enroll in and complete a minimum of 6 graduate credits in each semester of the scholarship year

The Donna Weistrop and David B. Shaffer Scholarship (up to $750-$1,000)
The Donna Weistrop and David B. Shaffer Scholarship was established by an endowment from Donna Weistrop and David B. Shaffer. This award is designated for students pursuing a graduate degree in Physics, Astronomy, Chemistry, or Geoscience. Preference will be given to students in Physics or Astronomy degree programs.

Applicants must:
• Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
• must be admitted into a Physics, Astronomy, Chemistry, or Geoscience graduate degree;
• have a minimum graduate GPA of 3.25;
• remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

The James F. Adams/GPSA Scholarship (up to $1,000)
The UNLV Graduate & Professional Student Association established these scholarships in honor of Dr. James F. Adams, former dean of the Graduate College (1980-85), to recognize academic achievement of master’s and specialist students. Applicants must:
• Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline;
• be a master’s or specialist student;
• have completed at least 6 graduate credits in their current degree program (by the end of fall 2018) and 12 graduate credits (by the end of spring 2019);
• have a minimum graduate GPA of 3.5;
• remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

The McNair Post-Baccalaureate Scholarship (up to $4,000.00)
McNair Post-Baccalaureate Scholarships, administered by the Graduate College, are awarded in open competition to first-year graduate students who participated in a McNair Scholars program at UNLV or at another institution as an undergraduate.

Applicants must:
• Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
• have a minimum undergraduate GPA of 3.0 and be admitted to a graduate degree-seeking program at the time the scholarship begins (fall 2019);
• upload a certification of McNair program participation letter;
• remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

The Patricia Sastaunik Scholarship (up to $2,500)
These awards are granted primarily on the basis of documented financial need as evidenced by a student’s FAFSA application and review by the UNLV Office of Financial Aid.

Applicants must:
• Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
• have a FAFSA (Free Application for Federal Student Aid) on record with Financial Aid for the upcoming scholarship year by the deadline;
• have a minimum graduate GPA of 3.5;
• have completed a minimum of 6 graduate credits in their current degree program (by the end of fall 2018);
• remain in good standing in their degree program and complete a minimum of 6 graduate credits in each
semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

**The DreamCatcher Scholarship (up to $1,000)**

The DreamCatcher Scholarship is awarded to graduate students who have proven involvement in the American Indian or Native American community. Preference will be given to American Indian or Native American students.

Applicants must:
- Submit an application with all required supporting documents (see above) in the Grad Rebel Gateway by the deadline.
- Be admitted into a graduate degree-seeking program
- Have a minimum GPA of 3.0 in their current graduate degree program.
- Submit the contact information of an American Indian Alliance member as the recommendation provider.

**The Gregg Schraw Scholarship (up to $1,000)**

The Dr. Gregg Schraw Scholarship was established to honor the contributions made by Dr. Gregg Schraw and provides financial support for graduate students.

- Gregg Schraw was a full professor in UNLV’s Department of Educational Psychology from 2000 until his passing in 2016. In addition to being a stunningly prolific author of journal articles, books, and book chapters and frequent editorial-board member for the top-tier, peer-reviewed journals in the field of educational psychology, Dr. Schraw was an uncommonly supportive and remarkably effective mentor to doctoral candidates at UNLV and other institutions. As both a researcher and a master teacher of other researchers, Dr. Schraw was an asset of inestimable worth to his academic field, to UNLV, and to every student he taught or mentored. Dr. Schraw’s impact on his field and the many scholars—both established and budding— with whom he interacted is described powerfully in McCrudden, M.T. (2016). Remembering Gregg Schraw. Educational Psychology Review, 28(4), 673-690, which can be read here.
- Applicants must:
- Submit an application with all required supporting documents in Grad Rebel Gateway (see above) by the deadline.
- Be a doctoral student at UNLV in:
  - Biological Sciences (Ecology and Evolutionary Biology concentration only)
  - Civil and Environmental Engineering (Environmental and Water Resources concentrations only)
  - Curriculum and Instruction
  - Educational Psychology
  - Experimental Psychology

- Must be alumni from one or more of the federally funded, campus-based projects housed within UNLV’s Center for Academic Enrichment and Outreach (CAEO). These projects currently include:
  - Title III Asian American and Native American Pacific Islander-Serving Institutions
  - National Science Foundation Louis Stokes Alliance for Minority Participation
  - TRIO Ronald E. McNair Scholars Institute
  - TRIO Student Support Services
- (Applicant will provide a letter of participation from UNLV CAEO as part of their application packet)
- Have a minimum graduate GPA of 3.0
- Remain in good standing in their degree program and enroll in and complete a minimum of 9 graduate credits in each semester of the scholarship year.

**The Sterling Scholarship (up to $5,000)**

This prestigious Alumni Association award is designated for UNLV graduates who are now admitted to and enrolled in a doctoral degree program.

Applicants must:
- Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
- be in good standing with full graduate status;
- be pursuing a doctoral degree and must have completed at least one year of their degree program before the scholarship begins (fall 2019);
- have a minimum graduate GPA of 3.5;
- have graduated with either a bachelor’s or master’s degree from UNLV;
- remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year; credit hours must be taken in residence to maintain funding eligibility.

**The School of Public Policy and Leadership Travel Award (up to $470)**

The School of Public Policy and Leadership Travel Award provides funding for students presenting at conferences or doing professional development. To be eligible for the Award,
Applicants must:

- Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline.
- Be an admitted master’s student in Public Administration or a doctoral student in Public Affairs.

Note: Statement of purpose should describe how the travel funds will be used if awarded.

The Summer Session Scholarship (up to $2,000)

Summer Session Scholarships are designed to enable summer study for doctoral students, however, excellent master’s and specialist students may be considered.

Applicants must:

- Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
- have completed at least 12 graduate credits in their current degree program (at the end of fall 2019);
- have a minimum graduate GPA of 3.0;
- remain in good standing in their degree program and complete a minimum of 6 graduate credits in any one or combination of summer sessions in 2020.

Criteria for selection will include summer plans for conducting dissertation or thesis research, as described in your statement of purpose.

The UNLV Graduate Access Childcare Scholarship (Variable: $150 - $2,500 depending on documented need and childcare expenses)

The Graduate College is pleased to announce that we will be continuing our Graduate Student Access Childcare Scholarship program for academic year 2019-2020 in an effort to offer competitive, need-based scholarship funding to admitted/enrolled graduate students with young dependents who have already submitted their FAFSA (Free Application for Federal Student Aid) to Student Financial Services and have documented financial need. This scholarship is available on a highly competitive basis to graduate students with child dependents who pay for professional daycare or childcare in order to attend graduate school and pursue their graduate research.

Applicants must:

- Submit an application with all required supporting documents in the Grad Rebel Gateway (see above) by the deadline;
- have a FAFSA (Free Application for Federal Student Aid) on record with Financial Aid for the upcoming scholarship year by the deadline (International Students must submit FAFSA);
- be admitted to a graduate degree-seeking program;
- have a minimum graduate GPA of at least 3.3;
- submit documentation that provides a Tax ID # for the childcare provider(s) and receipts showing the cost of childcare during academic semesters;
- remain in good standing in their degree program and complete a minimum of 6 graduate credits in each semester of the scholarship year to be awarded their full scholarship award; credit hours must be taken in residence to maintain funding eligibility.

Those who have all the proper documentation submitted by the deadline will be considered for a Childcare Scholarship; available childcare scholarship monies will then be distributed competitively based on financial need, childcare expenses, and graduate student GPA.

Employment

On-Campus Employment

Several campus departments and offices employ students in a variety of positions. These jobs can be viewed on the Career Services website, or on the Financial Aid and Scholarships website. On-campus employment listings are available to graduate students enrolled in at least five credits at UNLV. Financial need is not a criterion for on-campus employment.

Job Location and Development

Employment opportunities are offered to UNLV students by community businesses and individuals. These jobs can be viewed on the Financial Aid and Scholarships website or the Career Services website.

In addition to job listings, the JLD Program sponsors biannual Job Fairs where employers from businesses, government agencies, and hospitals, to name a few, come to campus to discuss part-time employment opportunities.

Federal Work Study

The Federal Work Study Program is a federally funded financial aid program awarded as part of the financial aid package. This program enables students to earn a portion of their college expenses through employment with a UNLV department or office or off campus with contracted nonprofit agencies. Community service is a major goal of this program. If available, students may choose jobs related to their academic majors and career objectives. Work hours may also be arranged according to class schedules.

To qualify for a Federal Work Study job, applicants must meet the eligibility requirements of the federal financial aid programs. One requirement, financial need, is determined by Student Financial Services and based on income and asset information entered on the Free Application for Federal Student Aid (FAFSA) application.

Funds are limited. Therefore, applicants must mail the completed FAFSA application to the federal processing center by November 1st. Questions concerning the eligibility requirements or application process may be directed to Student Financial Services, second floor, Student Services Complex.
Academic Policies

Graduate students are expected to comport themselves professionally and conform to the ethics, guidelines, policies, and standards of their discipline. It is the responsibility of students to know and observe all regulations and procedures related to their graduate program, the Graduate College, the Nevada System of Higher Education, and UNLV. In no case will any regulations be waived or an exception granted based on a plea of ignorance, or contention that the graduate program, Graduate College, or University did not specifically and individually inform a student of the regulations or procedures. Questions regarding graduate-level study, graduate student policies, rights, responsibilities, and/or regulations and their interpretation should be addressed with the Graduate College.

The policies and regulations of the graduate program or department, the Graduate College, the University of Nevada, Las Vegas, and the Board of Regents are subject to review and change. The Graduate College website contains up-to-date information on policies, procedures, deadlines, forms, and special programs and services. The Office of Student Conduct handles issues and questions related to the UNLV Student Conduct Code.

1. Mailing Address
2. Rebelmail
3. UNLV Graduate Assistant Program

Academic Integrity

The University and the Graduate College expect scholarly integrity and academic honesty on the part of students, faculty, staff, and administrators.

All academic work must be done in an ethical manner. The UNLV faculty and administration regard any attempt by a student to present as his or her own work that which he or she has not solely produced as a very serious offense. Students are considered to have cheated, for example, if they copy the work of another; use unauthorized notes or other aids during an examination; turn in a paper or an assignment written, in whole or in part, by someone else as their own. Students are guilty of plagiarism, intentional or not, if they copy material from books, magazines, or other sources without identifying and acknowledging the sources, or if they paraphrase ideas from such sources without acknowledging them—even if doing so was unintentional. Students guilty of, or assisting others in, either cheating or plagiarism on an assignment, quiz, examination, or other scholarly endeavor may receive a grade of ‘F’ for the course involved and may be suspended or removed from the program.

Additionally, UNLV has established policies regarding research misconduct among students, faculty and staff. Research misconduct pertains to commission of any of the following acts: falsification of data, improper assignment of authorship, claiming another person’s work as one’s own, unprofessional manipulation of experiments or of research procedures, or misappropriation of research funds. Likewise, most academic disciplines have codes of conduct that faculty and students must abide by, specific to your field of study.

All conduct code violations are handled by the Office of Student Conduct; academic appeals and requests for waivers of Graduate College policies are handled through the Graduate College. If a faculty member suspects that a graduate student may have committed academic dishonesty, or that some other violation of the UNLV Student Conduct Code, the faculty member or administrator must contact the Office of Student Conduct to discuss the possibility of disciplinary review under procedures described in the Nevada System of Higher Education document Rules and Disciplinary Procedures for Members of the University Community. Academic penalties for academic dishonesty include, but are not limited to: assigning the graduate student a failing grade for the corresponding segment of the course or for the entire course; requiring the student to rewrite the corresponding sections of his/her research paper, professional paper, thesis or dissertation, or the document in full; failing the student on the exam in question; or recommending that the student is separated from her/his graduate program. Further disciplinary sanction options described in the Code include warning, probation, suspension, and expulsion or revocation of a degree if a degree has been previously awarded. The Office of Student Conduct’s final decision will be relayed to the student, their department, and the Graduate College. Please visit the Appeals and Procedures section for further information about Graduate College academic appeal guidelines and procedures.

If a graduate student fails to maintain the standards of academic or professional integrity expected as defined in writing by their discipline or program, the student’s admission status in his or her program will be terminated. If any member of the university community is deemed guilty of academic dishonesty, action may be brought under Title 2, Chapter 6 of the Board of Regents Handbook. In addition, students who violate these standards will be subject to conduct sanctions, in accordance with the UNLV Student Conduct Code and Policies, in order to promote their own personal development, to protect the university community, and to maintain order and stability on campus.

Credit Requirements

Residence Credit Requirement

Resident credit means any graduate course that is satisfactorily completed at UNLV. Approved online study through UNLV or enrollment in another institution within the Nevada System of Higher Education does not constitute an interruption of resident credit.

A minimum of 2/3 of the total credits required to complete the master’s, specialist, or doctoral degree, not including thesis, dissertation, or professional paper credits, must be earned at UNLV after admission to a graduate degree program.
Graduate Credit

All courses numbered 500-799 are considered graduate-level. Undergraduate-level courses are numbered 100-499. Some graduate level courses are not usable for graduate credits. One example of this are courses with an RPDP prefix; these are non-graduate credit granting courses and are indicated as such on the UNLV transcript.

- 500 level classes are generally seen as remedial graduate courses, and they may also be used for non-degree, non-credit bearing courses; these may be cross-listed with 300 or 400 level undergraduate courses, with appropriate curricular review and approval.
- 600 level classes are generally seen as foundational graduate course work, and/or masters level course work; these courses may be cross-listed with 400 level undergraduate courses, with appropriate curricular review and approval. When cross-listed with an undergraduate course, graduate student course requirements will be different from, and more rigorous than, those of undergraduates.
- 700 level classes are generally seen as advanced graduate course work, and/or doctoral level course work; they may not be cross-listed with undergraduate courses.
- To be considered a graduate-level course, the instructor must be a member of the Graduate Faculty.
- The Graduate College requires a minimum of 50 percent of the degree program semester hours are 700-level courses excluding thesis, dissertation, or professional/scholarly paper. Individual departments may require more than the Graduate College minimum.

Symbols

Numbers separated by a hyphen indicate courses which must be taken in sequence. The first semester is prerequisite for the second, for example, 701-702. Numbers separated by a comma indicate courses which may be taken one without the other, for example (701, 702). Various areas of the same course may be taken for credit. They are indicated by letters, for example A., B., etc.

Credit Toward Degree/Certificate

Courses used to fulfill requirements for one degree may not be used toward another degree. Credits used to fulfill requirements for one certificate may not be used toward another certificate. No more than three credits of a student’s degree program may consist of UNLV workshop, institute, and conference credits, and the student must have received a grade for these credits.

A course in which a grade of less than C was received will not be considered for use toward the degree or certificate. Departments may impose a higher grade standard. Experiential (life and work experiences), correspondence, and audited courses may not be applied toward the degree. Credit by examination is not allowed for graduate courses. In addition, courses numbered in the 100-499 series cannot be used for graduate credit.

Credit may be used toward the graduate degree for courses taken while an undergraduate at UNLV only if the course was reserved for graduate credit. See the Admissions section for this information.

Transfer Credit Policy

Not more than one-third of a student’s degree or certificate program (not including the thesis, dissertation, or professional/scholarly paper) may be transferred into the program. For UNLV Non-Degree graduate students, a maximum of 15 graduate credits taken at UNLV may be applied toward a graduate degree program.

Once admitted to an advanced degree program, students must obtain prior written consent of the department and the Graduate Dean, by way of a Transfer Credit Request Form, to take course work elsewhere and use it in their UNLV graduate degree program.

To be considered for use:

1. The work must have been taken at a regionally accredited institution in the U.S. or equivalent;
2. The course must be graded (it may not be pass/fail or S/U or S/F);
3. The work must have been completed with a grade of B or higher (B- is not acceptable);
4. Official transcripts covering the work must be sent directly from the issuing institution to the Graduate College; and
5. The work must be posted to the student’s permanent academic record;
6. The course must be comparable in content, substance, and rigor to the course work it is replacing in the student’s UNLV graduate degree program;
7. Work that is used to fulfill requirements for one degree may not be used toward another degree.

Transfer credit is approved only when evidence exists that the work is certifiably graduate-level. The age of the transfer work under consideration may also be a factor in the decision as to whether or not the course work is admissible. The student is responsible for providing evidence and documentation as required. If approved, non-semester credits will be converted to semester credits for transfer.

Definition of Full and Half-Time Students

Graduate students enrolled in 9 or more credits are considered full-time. Graduate students enrolled in 5 to 8 credits are considered half-time students; this excludes Graduate Assistants who are considered full-time students when enrolled in 6 or more credits. Please note that UNLV considers GAs enrolled in 6 credits as full-time graduate students. However, for federal financial aid purposes, a GA enrolled in less than 9 credits will be considered half-time. For the purposes of Veterans, we consider graduate students enrolled in 5 credits half-time. Regardless of your status, please check with Financial Aid to confirm your eligibility and how your enrollment may impact your financial aid package. Please note that the number of credits enrolled impacts financial aid. Contact the Office of Financial Aid and Scholarships for further information.
The ‘I’ grade is used for content/lecture type courses. An ‘I’ may only be given when the following regulations apply to the ‘I’ or Incomplete grade:

- Incomplete (expires after one year; if not grade is submitted in that timeframe, the ‘I’ will default to an ‘F’ grade)
- Unsatisfactory
- Audit (not graded, no credit toward GPA)
- Superior (4.0)
- Passing (3.0)
- Average (2.0)
- Below Average (1.0)
- Failing
- Graduation GPA is posted on her/his transcript and does not appear on a student’s transcript; a student’s Cumulative Program GPA is calculated by the Graduate College. Sixty-six graduate credits each semester (excluding summer) until the document has been completed and has been given final approval. Students who have not registered for academic work within the prior three rolling semesters (fall-spring-summer, spring-summer-fall, summer-fall-spring) will be separated from their program and must reapply for admission should they wish to continue. Exceptions to the above policy, as with a request for a leave of absence, are made only with the approval of the student’s advisor, graduate coordinator, department chair, academic dean, and the Graduate Dean. Any student using the services of the academic staff or university facilities must be registered for the period during which the services are rendered or the facilities are used. Students must be registered for a minimum of three graduate credits during the semester they intend to graduate and/or take examinations (e.g., final, comprehensive, preliminary, qualifying), defend a thesis, or defend a dissertation.

Grading Policy
All instructors are required to follow the Minimum Criteria for Syllabi established by the Faculty Senate and the Office of the Executive Vice President and Provost (see https://www.unlv.edu/about/policies/current-policies and search ‘syllabi’).
**Time to Degree Policy**

Certificate Students: Certificate programs are designed to be 1-2 year courses of study. All certificate requirements must be completed within 4 years; or 6 years if a student is simultaneously enrolled in another graduate degree program.

Master’s Degree Students: Master’s degree programs are designed to be 1-3 year courses of study. All master’s degree program requirements must be completed within six years. Course work completed more than six calendar years before the term in which all degree requirements are met may not be used in the degree program.

Specialist Degree Students: Specialist degree programs are generally 3-6 year courses of study. A student beginning a specialist degree program and holding a master’s degree in an appropriate field of study must complete all specialist degree program requirements within six years. A student beginning a specialist degree program without a master’s degree (post-bachelors to doctoral track) must complete all requirements for the degree within eight years.

Doctoral Degree Students: Doctoral degree programs are generally 3-6 year courses of study. A student beginning a doctoral degree program and holding a master’s degree in an appropriate field of study must complete all doctoral degree program requirements within six years. A student beginning a doctoral degree program without a master’s degree (post-bachelors to doctoral track) must complete all requirements for the degree within eight years.

In special circumstances, the student’s faculty advisory committee may recommend that the Graduate Dean extend these degree time limits. Each department may establish shorter periods of time to completion, contingent upon the approval of the Graduate Dean and inclusion in the appropriate degree program section of this catalog.

Students violating the maximum time to degree policy, and/or the continuous enrollment policy, are no longer automatically eligible to complete their program using the degree requirements in place at the time of admission. This decision is left to the discretion of the department and Graduate Dean.

Students are considered to be making satisfactory progress toward the degree as long as they are successfully completing six hours of graduate degree program credits per rolling three semesters (including summer), meeting their graduate program milestones, fulfilling degree requirements, progressing toward completion, and submitting all required paperwork in a timely manner. Students not meeting any of these requirements will be placed on academic probation and may be separated from the Graduate College.

**Leave of Absence & Medical Leaves**

When necessary, a student may request approval for a leave of absence (LOA) from a degree program (please visit the Grad Rebel Gateway to access the form). During the leave of absence, the student should remain in contact with the department about their return plans. If a student does not return by the end of her/his approved LOA, s/he must apply for an additional LOA using the form above or s/he will be separated from his/her graduate program. One year is the standard leave period; two years is the maximum allowable leave. Note that all degree requirements must be completed within the maximum time to degree policy as outlined above, regardless of an approved leave of absence.

Note: For all medical leave requests please contact the Student Wellness Center at 702-895-0136 or visit: https://www.unlv.edu/studentwellness/health-center/crisis/voluntary-health-withdrawal.

**Probation and Separation**

For the purposes of evaluating student progression, UNLV considers student performance in individual graduate classes, timely and successful completion of required milestones, as well as degree GPA. Degree GPA is distinct from overall Graduate GPA insofar as it only includes those courses that are necessary to meet a student’s current degree program requirements as published in the Graduate Catalog at the time of their admission or at the time of their graduation. The Graduate GPA included on the UNLV transcript is cumulative and includes all graduate and professional coursework ever taken at UNLV; as such, it is not necessarily an indicator of a student’s degree GPA.

If a student fails to successfully progress in their degree program, their department/school will recommend that the student be placed on probation by the Graduate College. Students on probation may be dismissed/separated from their program for failing to successfully meet the conditions of their probation by the deadline provided. Unsuccessful degree program progression includes, but is not limited to, a failure to:

- maintain a minimum degree GPA of 3.0;
- earn satisfactory grades (including no more than two incompletes; no grades below a B or B- [depending on the program’s Handbook]; and no repeated withdrawals from courses required for the degree program)
- maintain continuous enrollment by completing six (6) graduate credits each rolling three semesters (including summer) toward their program requirements;
- consult with their advisor within a reasonable amount of time when requested;
- establish a graduate advisory committee, when required;
- consult with a graduate advisory committee when requested;
- develop and submit an official, approved degree program in a timely manner;

Graduate Catalog 37
• establish the groundwork for an acceptable thesis or dissertation, and successfully defend the prospectus in a timely manner;
• complete required comprehensive and/or qualifying examinations on schedule;
• meet a department milestone or pass the culminating experience in an appropriate timeframe;
• successfully defend a thesis or dissertation in a timely manner;
• and/or meet approved requirements in their department’s graduate handbook.

Students may be dismissed/separated from a graduate program in the following circumstances:

• violations of ethical, professional, and/or student conduct in the field of study and/or as reflected in the UNLV Student Conduct code and adjudicated by the UNLV Student Conduct board review process;
• failure to successfully progress in one’s degree program;
• and/or failure to meet academic probation requirements in a timely manner.

See the full Student Program Dismissal Procedures for more details.

Please note that graduate students will be automatically separated for failure to meet UNLV Graduate College continuous enrollment policy which requires students to enroll in and complete a minimum of six graduate credits in a rolling three-semester period. So, students must complete a total of at least six graduate credits in the current semester plus the two prior semesters (including summer).

A UNLV graduate student who has been separated for academic reasons is not automatically eligible for admission or re-entry. The student must appeal to the Graduate College to be considered for academic reinstatement; and if approved, the student must (re)apply to their desired degree program and complete the standard application process.

Administrative Drops and Classroom Conduct
Failure to attend a course or to submit required work will result in a grade of F. The student who neglects a course is solely responsible for dropping the course or withdrawing from the university. However, an administrative drop may be initiated at the discretion of the instructor, who will record the circumstances. The approvals of the academic unit chair/director, and the dean of the college offering the course, are required.

Students have a responsibility to conduct themselves in class and in the libraries in ways that do not interfere with the right of other students to learn or the right of instructors to teach. Use of electronic devices such as cellular phones, or recording devices, or other potentially disruptive activities, is permitted only with prior explicit consent of the instructor. The instructor may rescind permission anytime during the course. If a student does not comply with requirements, or obstructs the functioning of the class, the instructor may initiate an administrative drop.

Serious cases of misconduct, as defined by the Rules and Disciplinary Procedures for Members of the University Community or the UNLV Student Conduct Code, will be referred to the appropriate administrative officer for action.

Communication
Mailing Address
A change of address must be changed by the student through his or her MyUNLV account. Any correspondence from the university mailed to the last address provided by the student to the Registrar and Graduate College will discharge all university responsibility for notification.

Rebelmail
Graduate students are required to set-up, use, and monitor their UNLV Rebelmail email accounts. MyUNLV and Rebelmail are the primary ways in which the Graduate College and other campus offices communicate important information to students. Any student wishing to email the Graduate College or any university staff must do so from a UNLV email account. In accordance with FERPA regulations, the Graduate College will not respond to student emails from non-UNLV accounts.
Appeals and Procedures

Academic Appeals
Graduate academic appeals are used to request reconsideration or a remedy from alleged unfair or inappropriate academic practice, or relief or waiver from a UNLV and/or Graduate College policy or requirement. Appeals must be filed with the Graduate College Office within 60 calendar days from the last day of the term/semester in which the issue being appealed arose. Each appeal is reviewed individually and a decision will be based on the merits of the request as substantiated in the documentation provided.

The Registrar’s Office must receive notification to change a grade due to clerical error within 60 calendar days from the last day of the term/semester. The Grade Change Form is available on the Office of the Registrar forms page. For grade changes after this deadline, please submit a complete and signed Graduate College academic appeal.

When submitting an academic appeal, it is the student’s responsibility to provide a clear and concisely written statement explaining the reason for the appeal and the remedy being requested. The student must also provide all relevant documentation that s/he wishes to be reviewed and considered in the appeal decision. Academic appeals must include:

1. Current students should log into the Grad Rebel Gateway to complete the UNLV Graduate College Appeal Form. If you were last enrolled prior to 2017 and have not applied to admission to a different Graduate program since then, and need to submit an appeal, please email Grad.Rebel@unlv.edu.

2. Written statement of explanation of the nature of the appeal.

3. Relevant documentation and support. For example, documents may include medical records, work verification police reports, death certificates, airline receipts, letters from professors on university letterhead, transcripts, etc. If the issue is not resolved between the student and course instructor, a written appeal should first be directed to the Graduate Coordinator of the department in question. If the problem remains unresolved to the student’s satisfaction, appeals must be directed in progressive order to the student’s advisor, Department Graduate Coordinator, Department Chair, College Dean, then subsequently to the Graduate Dean.

An academic appeal must be directed in progressive order to the student’s advisor, Department Graduate Coordinator, Department Chair, College Dean, then subsequently to the Graduate Dean. Note that advisors and departments may have varying methods of processing appeals. Students should contact the department for specific policies and procedures.

The Graduate Dean may render a decision, act to resolve the problem, or request that the Graduate College Appeals and Legal Issues Committee (which does not convene in summer) review the appeal and make a recommendation to the Graduate Dean. The Graduate Dean will render the final decision and move to inform the student in a timely manner. Generally, graduate academic appeals take from two weeks to several months to resolve, depending on the nature and complexity of the appeal.

Financial Appeals
Appeals regarding financial issues (e.g., tuition refund, tuition waiver, student fees, late fees, etc.) must be submitted separately to the UNLV Student Accounts Office, using their Tuition & Fee Appeal Form. If an appeal involves both an academic and financial issues, the student should submit an academic appeal first to the Graduate College and wait for a decision before commencing with the financial appeal to the Student Accounts Office. For further information concerning the financial appeal process please refer to Cashiering and Student Accounts.

Records Retention
Electronic and paper student records must be properly and securely maintained and protected per the Nevada System of Higher Education Records Retention and Disposition Schedule. Questions about records retention at UNLV should be directed to the Office of the Executive Vice President and Provost.

Policies and Procedures on the Protection of Research Subjects

Human Subjects: Graduate students conducting research must adhere to UNLV policies and procedures regarding the use of human subjects. All research projects in which human subjects are involved must be reviewed and approved under the authority of the UNLV Institutional Review Board (IRB), which consists of two committees - Biomedical Sciences Committee and Social and Behavioral Sciences Committee. The IRB is responsible for the development and monitoring of university policy and procedures involving the use of human subjects in research.

The provision for the protection of human subjects in research applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff. It also applies to persons unaffiliated with UNLV, who wish to investigate subjects under the protection of the university. Students should contact the Office of Research Integrity to obtain appropriate forms and further information.

Animal Subjects: It is university policy that: 1) the proper care and management of laboratory animals is essential to the welfare of the animals, to the validity of research data, and to the health and safety of those caring for or using animals; and 2) the university will comply with federal and state regulations regarding animal welfare.

All animal protocols involving vertebrate animals (including farm animals and wild animals) conducted at, funded through or sponsored by UNLV must be submitted for prior Institutional Animal Care and Use Committee (IACUC) review and periodic review after approval in accordance with university policies and procedures that are required by federal law.

The provision for the protection of animal subjects in research applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff. It also applies to all studies in all locations, whether funded or unfunded, and whether conducted by faculty, students, or staff.
It also applies to persons unaffiliated with UNLV, who wish to investigate subjects under the protection of the university. Students should contact the Office of Research Integrity to obtain appropriate forms and further information.

**Mandatory Graduate and Professional Student Health Insurance**

All fully admitted graduate and professional students taking 9 credits or more per semester, all international graduate students, and all graduate assistants (GAs), must have insurance coverage either through UNLV or their own carrier.

Students who are admitted into a graduate or professional program and are enrolled in 9 credits (regardless of the course level) in a semester, and all international students and graduate assistants, will be automatically billed for student health insurance. Students who already have health insurance must complete the UNLV online health insurance waiver form to waive out of the UNLV student health insurance. Once approved, a health insurance waiver is good for one academic year.

For more information on Graduate Student Health Insurance fees, please refer to the Mandatory Graduate & Professional Student Health Insurance page of the Graduate College website.

**UNLV Graduate Assistant Program**

Policies and Practices

All GAs, as well as faculty/staff GA supervisors and mentors, are responsible for being aware of all policies, procedures, and practices outlined in the UNLV Graduate Assistant Handbook.

**Graduate Assistant Parental Leave Program Guidelines**

1. As used in this document, “parental leave” means leave with or without pay for childbirth or placement of a child for adoption or foster care. The Graduate College program will provide up to six weeks of paid GA leave (during the standard GA appointment period), and up to an additional six weeks of unpaid leave or a flexible GA work assignment.

2. Graduate Assistants (GA) will be provided guaranteed parental leave with pay of up to six weeks at the GA’s discretion during a GA contract period, retaining their full stipends and benefits during the leave. If both parents are Graduate Assistants, the six week leave may be divided between them, as per their request. If needed, GAs may request up to six additional weeks of leave without pay or flexibility in duty assignments.

3. Departments, faculty, and graduate assistants should continue to work collegially to agree upon the details of the leave, recognizing that these may differ from case to case depending on the timing of the birth/adoption, individual student circumstances/preferences, and type of GA work assignment. Supervisors are expected to work with GAs requesting allowable leave to accommodate requests for alternative workload assignments, and/or flexible workload assignments, in a way that recognizes the special needs of, and potential benefits to, the GA. We encourage departments to support maximum GA utilization of the Parental Leave Program.

4. The Graduate College Parental Leave Form must be submitted at least eight weeks prior to the anticipated leave, or two weeks before the start of the semester, whichever is earlier. This form details the plan for the parental leave and departmental acceptance thereof, and must be signed by the graduate student, graduate coordinator, department chair, College Dean (if required).

5. A graduate assistant whose request for a reasonable leave is not approved should consult first with his or her Graduate Coordinator or Department Chair, next with his or her college Dean, and last, if necessary, with the Graduate College. The Dean of the Graduate College will serve as the final arbiter to establish a workable leave plan.

6. If the GA’s department does not urgently require a replacement GA during the 6-week leave period, the GA stipend/regular pay to the GA shall remain in place. However, if the department can demonstrate an urgent need to hire a substitute graduate student as a GA during the 6 week period (to cover undergraduate class(es), etc.), the GA on leave will have their pay suspended until they return and will be given a replacement scholarship/grant in the amount of the minimum GA stipend for this time period. Parental Leave Grant Amounts are calculated using 6 weeks of GA pay based on program specific minimum stipends.

**Eligibility**

1. Generally, GAs must be appointed for at least one semester before the beginning of a leave request. If requesting summer leave, students must have been hired for the previous spring term and have a summer GA contract in place.

2. GAs applying for this leave program must be in good academic standing and continue to be enrolled in classes during the leave period to meet the continuous enrollment policy.

**Important Points to Consider**

- Parental leave may be taken during the semester in which the child is born or adopted, or during the semester immediately following.

- Parental leave does not constitute a break in continuous enrollment. All GAs must maintain 6 graduate level credits each semester they are a GA, including when on approved parental leave; if a graduate student chooses unpaid leave via an approved leave of absence or medical leave, registration is not required.
• Students supported by a research assistantship funded by external sources, such as grant funding, you must adhere to the rules of the granting agency in regard to leaves from work. If the granting agency defers to University policy regarding paid parental leave, the six-week leave will be paid by the grant. If the granting agency requires suspension of payment during the leave period, the student may be eligible for substitute payment from this program. If the leave occurs at the end of the semester or at the end of a contract period, financial support will not be continued beyond the end of the contract.

Student Use of Hazardous Materials
Certain courses may require students to work with potentially hazardous materials in the lab, darkroom, or workshop. Instructors will provide instructions regarding the safe handling of all materials. Questions should be directed to the specific academic department or instructor, and all such activities must comply with national, state, local, UNLV and Office of Risk Management guidelines and requirements.

UNLV Student Computer Use Policy
Open computer laboratories and WiFi internet access are provided as a service to students. Use is a privilege, not a right. Users should be good citizens; they must refrain from doing anything that annoys others or disrupts the educational experiences of their peers. Failure to comply with the regulations below may result in suspension under the NSHE Code, or civil or criminal action under the Nevada Revised Statutes, or federal law. It is a violation of UNLV policy to:

1. Copy any copyrighted software provided by UNLV. It is a criminal offense to copy any software protected by copyright, and UNLV will treat it as such.

2. Use licensed software in a manner inconsistent with the licensing arrangement. Information on licenses is available at the tutor stations or through NSHE Computing Services.

3. Copy, rename, alter, examine, or delete the files or programs of another person or UNLV without permission.

4. Use a computer to annoy others, including, but not limited to, sending offensive messages or knowingly causing a system to malfunction.

5. Create, disseminate or run a self-replicating program (“virus”), whether destructive in nature or not.

6. Use a computer for non-university work, such as for a private business or non-UNLV sanctioned club.

7. Tamper with switch settings or do anything that could damage terminals, computers, printers, or other equipment.

8. Collect, read, or destroy output other than your own work without the permission of the owner.

9. Use the computer account of another with or without permission unless it is designated group work.

10. Access or attempt to access a host computer, either at UNLV or through a network, without the owner’s permission, and/or through use of log-in information belonging to another person.
Disclosures

Family Educational Rights and Privacy Act of 1974
UNLV is subject to FERPA, the Family Educational Rights and Privacy Act, which is a federal law that protects the privacy of student education records. The UNLV Office of the Registrar administers the University’s FERPA policy, which is available at: www.unlv.edu/registrar/ferpa.

As a best practice, each student is encouraged to keep copies of all Department and Graduate College paperwork associated with his/her program. A student may request copies of his/her education records in accordance with the University’s FERPA Policy.

Annual Jeanne Clery Campus Safety and Security Report
In order to comply with provisions of “The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act”, reports from the University community and local law enforcement agencies are compiled and published annually by the Department of Public Safety. As law enforcement professionals tasked with the maintenance of a safe and secure educational environment, it is our responsibility to provide a comprehensive report regarding the campus public safety environment including the incidence of crime.

Limitations
The 2019-2020 Graduate Catalog describes current academic programs of study, course descriptions and degree requirements at the graduate level for the academic year of 2019-20 at the University of Nevada, Las Vegas. The content of this catalog is current as of August 2019, but is subject to modification at any time to accommodate changes in university resources or educational plans.

This catalog does not constitute a contractual commitment that the university will offer all the courses or programs described, and the university reserves the right to revise catalog provision and fees at any time in accordance with the actions of the president, the Nevada System of Higher Education, or any other governing body.

The university reserves the right to eliminate, cancel, reduce in size or phase out courses, academic programs and/or limit enrollments in specific programs and courses, to change fees during the student’s period of study, and to require a student to withdraw from the institution for cause at any time.

Inquiries
Inquiries should be addressed to: Dean of the Graduate College, University of Nevada, Las Vegas, 4505 Maryland Parkway, Box 451017, Las Vegas, NV 89154-1017, (702) 895-3320, or call UNLV’s main switchboard at (702) 895-3011. Visit the UNLV Website at www.unlv.edu.

Title IX Compliance
The Patsy T. Mink Equal Opportunity in Education Act, generally known as Title IX of the Education Amendments of 1972 is a federal law that prohibits sex discrimination in education. It reads:

“No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.” Legal Citation: Title IX of the Education Amendments of 1972, and its implementing regulation at 34 C.F.R. Part 106 (Title IX).

Often considered a law giving women equal opportunities in athletics, Title IX of the Education Amendments of 1972 (20 U.S.C. § 1681) is an all-encompassing federal mandate prohibiting discrimination based on the gender of students and employees of educational institutions receiving federal financial assistance. Sex discrimination includes sexual harassment and sexual violence. Educational institutions that receive federal financial assistance are covered by Title IX. If only one of the institution’s programs or activities receives federal funding, all of the programs within the institution must comply with Title IX regulations. In compliance with Title IX, the University of Nevada, Las Vegas prohibits discrimination in employment as well as in all programs and activities on the basis of sex.

Title IX Coordinators - visit www.unlv.edu/compliance/titleIX

Diversity at UNLV
The University of Nevada, Las Vegas (UNLV), along with other research-intensive public universities in the United States, recognizes that a student body that is diverse with respect to race, ethnicity, socioeconomic class background, and geography among other dimensions of cultural difference, benefits and enriches the educational experiences of all students, Faculty and staff. Accordingly, UNLV strives to recruit students who will further enrich this diversity and to support their academic and personal success and while they are a part of our campus community. The presence and achievement of racial and ethnic minority students at UNLV not only benefits these students individually, but it also enhances the educational and interpersonal experiences of everyone in our campus community. UNLV actively encourages applicants whose racial and ethnic background is underrepresented in higher education in Nevada, who are first-generation college students, and who have demonstrated financial need.

The vision of the Office of Diversity Initiatives is to advocate, promote, and support the advancement of equity, inclusiveness, and empowerment of a continuously changing collegiate and global community.

Student Policies
All graduate students at the University of Nevada, Las Vegas must adhere to the rules and regulations set forth by the Nevada System of Higher Education (NSHE) Board of Regents Handbook, UNLV Student Conduct Code, UNLV Graduate Catalog, and Program Handbook. Students found in violation of any of the rules and regulations discussed above as well as the laws governing the State of Nevada and the United States of America are subject to disciplinary action.

Copyright ©2019-2020
Academic Calendar
2019-2020 Academic Year

Subscribe to UNLV Calendars

Stay up-to-date on UNLV events by subscribing to the UNLV academic calendars including the Graduate College calendar. Follow add these calendars to your Rebelmail Google Calendar, do the following:

1. Sign into your Rebelmail account.
2. For each calendar that you wish to subscribe to, click on its calendar link below.
3. Your Google Calendar will open up in a new window or tab. Click Yes, add this calendar to add it to your Google Calendar.

Graduate College Google Calendar
Spring and Fall Academic Calendar
Summer Term Academic Calendar

2019-2020 Academic Year

Fall Semester 2019

August
23 Last Day to Pay in Person Without Late Penalties
25 Last Day to Pay Online Without Late Penalties
26 Instruction Begins

September
2 Labor Day Recess

October
19 Mid-Semester
25 Nevada Day Recess

November
11 Veterans Day Recess
28-29 Thanksgiving Day Recess

December
7 Instruction Ends
9-14 Final Examinations
14 Semester Ends
17 Grades Due (by 4:00 p.m.)
17 Commencement (4:00 p.m.)

Spring Semester 2020

January
17 Last Day to Pay in Person Without Late Penalties
20 Last Day to Pay Online Without Late Penalties
20 Martin Luther King, Jr. Day Recess
21 Instruction Begins

February
17 President’s Day Recess

March
15 Mid-Semester
16-21 Spring Break Recess

April

May
9 Instruction Ends
11-16 Final Examinations
16 Semester Ends
16 Commencement (9:00 a.m. & 2:00 p.m.)
19 Grades Due (by 4:00 p.m.)

Summer Session I 2020

May
18 Instruction Begins
25 Memorial Day Recess

June

July
3 Independence Day Recess
10 Instruction Ends
14 Summer II Grades Due (by 4:00 p.m.)

Summer Session II 2020

June

July
13 Instruction Begins

August
14 Instruction Ends
17 Summer III Grades Due (by 4:00 p.m.)

Summer Session III 2020

July

August
17 Summer III Grades Due (by 4:00 p.m.)

*SPRING BREAK - Faculty Senate practice indicates that if four or more weeks are remaining after Easter Sunday, Spring Break is the week ending with Easter. Otherwise, Spring Break is the week following mid-semester. In 2020, Easter Sunday falls on April 12.

**HOLIDAYS - Observed Holidays were determined using the guidelines in NRS 236.015.

***Dates subject to change
Academic Program Accreditations

UNLV is accredited by the Northwest Commission on Colleges and Universities.
UNLV’s international programs are approved by the Council on International Educational Exchange.
For more information visit the UNLV Academic Program Accreditations webpage.

<table>
<thead>
<tr>
<th>College</th>
<th>Program</th>
<th>Accredited by</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Integrated Health Sciences</td>
<td>Doctor of Physical Therapy Program (DPT)</td>
<td>CAPTE</td>
</tr>
<tr>
<td></td>
<td>Health Physics - Environmental Option, M.S.</td>
<td>ABET</td>
</tr>
<tr>
<td></td>
<td>Health Physics - Medical Physics, D.M.P.</td>
<td>CAMPEP</td>
</tr>
<tr>
<td>Lee Business School</td>
<td>Accounting – M.S.</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>Economics – M.A.</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>Management or Information Management Graduate Certificate in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Management Information Systems M.S. – Management Information Systems</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>E.M.B.A. - Executive Master of Business Administration</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>Graduate Certificate in Business Administration</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>Graduate Certificate in New Venture Management</td>
<td>AACSB</td>
</tr>
<tr>
<td></td>
<td>M.B.A. - Master of Business Administration</td>
<td>AACSB</td>
</tr>
<tr>
<td>School of Public Health</td>
<td>M.H.A. (Master of Health Care Administration) and Executive M.H.A.</td>
<td>CAMHE</td>
</tr>
<tr>
<td></td>
<td>Public Health - M.P.H., &amp; Ph.D.</td>
<td>CEPH</td>
</tr>
<tr>
<td>School of Dental Medicine</td>
<td>Doctor of Dental Medicine (DMD)</td>
<td>CODA</td>
</tr>
<tr>
<td></td>
<td>Doctor of Dental Surgery (DDS)</td>
<td>CODA</td>
</tr>
<tr>
<td></td>
<td>Orthodontics &amp; Dentofacial Orthopedics, Certificate</td>
<td>CODA</td>
</tr>
<tr>
<td></td>
<td>Pediatric Dentistry, Certificate</td>
<td>CODA</td>
</tr>
<tr>
<td></td>
<td>General Practice Residency, Certificate</td>
<td>CODA</td>
</tr>
<tr>
<td>College of Education</td>
<td>Ed.S. School Psychology</td>
<td>NASP</td>
</tr>
<tr>
<td>College of Fine Arts</td>
<td>Architecture, M. Arch.</td>
<td>NAAB</td>
</tr>
<tr>
<td></td>
<td>Art, M.F.A., Studio Art (Photography or Sculpture)</td>
<td>NASAD</td>
</tr>
<tr>
<td></td>
<td>Music, M.M., Music Education, Performance, Conducting, or Composition</td>
<td>NASM</td>
</tr>
<tr>
<td></td>
<td>Music, D.M.A., Applied Music</td>
<td>NASM</td>
</tr>
<tr>
<td>William S. Boyd School of Law</td>
<td>Juris Doctor, J.D.</td>
<td>ABA</td>
</tr>
<tr>
<td>College of Liberal Arts</td>
<td>Ph.D. Psychology, Clinical Track</td>
<td>APA</td>
</tr>
<tr>
<td>School of Medicine</td>
<td>M.D.</td>
<td>LCME</td>
</tr>
<tr>
<td></td>
<td>M.S., Couple and Family Therapy</td>
<td>COAMFT</td>
</tr>
<tr>
<td>School of Nursing</td>
<td>M.S.N.</td>
<td>CCNE</td>
</tr>
<tr>
<td></td>
<td>D.N.P.</td>
<td>CCNE</td>
</tr>
<tr>
<td>Greenspun College of Urban Affairs</td>
<td>M.P.A.</td>
<td>NASPAA</td>
</tr>
<tr>
<td></td>
<td>M.S.W.</td>
<td>CSWE</td>
</tr>
</tbody>
</table>
Lee Business School

The Lee Business School offers several graduate programs. The Master of Science in Accountancy (MSA) provides professional preparation for students wishing to pursue careers in taxation, public accounting, managerial or corporate accounting, and government. The MSA also provides the necessary coursework for sitting for the CPA exam in Nevada and other 150-hour jurisdictions.

The Master of Science in Management Information Systems (M.S. MIS) prepares graduates for professional and managerial careers in information technology (IT). MIS students earn competency in IT, embedded in a business context that provides them with well-rounded preparation for occupations in high demand.

The M.A. in Economics focuses on applied and empirical economics and also provides students with a strong foundation for further graduate study at the Ph.D. level. The core of the program includes the basic theory of microeconomics, macroeconomics, as well as math for economists. To develop empirical skills, students must take 2 courses that use statistical analysis to examine interesting economic problems.

The M.S. in Data Analytics and Applied Economics combines skills in programming, data gathering, and data management with skills in economic reasoning and statistical analysis skills. The program attracts students with focused career choices that require core competence in programming and constructing data systems with analytical and statistical skills. It also prepares students preparing for a career as data scientists. The economics portion of the degree advances students’ knowledge in economic theory. It also provides students with skills associated with advanced statistical and econometric analysis and helps students develop their communication skills. The technical portion of the degree is designed to equip graduate students with a solid foundation in programming, building data management systems, and data mining.

The Master of Business Administration (MBA), is designed to prepare the individual to meet the challenges of rapid change in business and in society through an emphasis on managerial concepts and analytical reasoning. The particular focus on theory and practice produces special qualities in the UNLV MBA graduate. By studying managerial theory and economic principles, the student acquires the capacity for assuming responsibility in a wide variety of roles within an organization.

The Executive Master of Business Administration (EMBA) is designed for experienced professionals who want to compete for top management positions by acquiring an integrated understanding of business and the strategic perspective necessary to lead. Taught by accomplished faculty, small cohorts of students complete a rigorous and relevant curriculum in just eighteen months by immersing themselves in a highly interactive experience. The program culminates with an international seminar where students witness global business first-hand.

Brent Hathaway, Ph.D., Dean, Lee Business School
Andrew Hardin, Ph.D., Associate Dean for Research and Graduate Programs
Stoney Alder, Ph.D., Associate Dean for Academic Affairs

Programs
Accounting
Business Administration Programs
Economics
Finance
Management Entrepreneurship and Technology
Marketing and International Business

College Information
FIN 718 - Financial Derivatives Credits 3
Introduces basic financial derivatives such as options, futures and swaps. Focuses on how to use them as hedging and speculative tools in various contexts and also as fundamental building blocks to engineer new products. Highlights techniques for the valuation of the derivatives with an emphasis on the basic principles. Prerequisites: FIN 708 or FIN 710.

Accounting
The Master of Science in Accounting is designed to provide professional preparation at the graduate level for students wishing to pursue careers and advancement in taxation, public accounting, managerial or corporate accounting, and government. Our graduate courses help students extend and integrate their accounting knowledge by building on the knowledge received in undergraduate programs. The M.S. in Accounting provides the necessary coursework to sit for the CPA exam and obtain the CPA license in Nevada and other 150-hour jurisdictions.

Students may pursue either a full-time or part-time course of study to complete the 30-credit program. Students need not have an undergraduate degree in accounting or business. However, those without the undergraduate coursework on which the program builds will be required to complete those courses in addition to the 30-credit program.

Pursuing a career in accounting can provide a lifetime of professional opportunities. Earning your M.S. in Accounting is an investment in yourself and your future.

The A.A.C.S.B. - International Association for Management Education accredits the Master of Science in Accounting.

Robert Cornell, Chair
Kimberly Charron, Graduate Coordinator
Advanced Graduate Certificate in Accounting (On Hold)

Program is on Hold and not currently accepting applications.

Plan Description

This certificate is designed to prepare professionals, who may be switching careers or those entrepreneurs who want accounting skills to better run their business, with fundamental knowledge in accounting. Successful completion of the Advanced Graduate Certificate in Accounting will prepare students to enter the M.S. in Accountancy program. The Graduate Certificate in Accounting coupled with this Advanced Graduate Certificate in Accounting will provide professionals without an undergraduate degree in accounting the needed accounting credits to sit for the Certified Public Accounting (C.P.A.) exam.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines - Program is on Hold and not currently accepting applications.

Applications available on the UNLV Graduate College website.

Admission requirements include the successful completion of either an undergraduate degree in accounting or the UNLV Graduate Certificate in Accounting or equivalent coursework with a GPA of 2.75 or higher.

If desired, upon successful completion of the Advanced Graduate Certificate in Accounting, students may apply for admittance into the M.S. Accountancy program. General Admission requirements for admission to the M.S. Accountancy program are a 3.0 GPA or higher and a Graduate Management Admission Test (GMAT) score of 550 or higher. Students who complete the Advanced Graduate Certificate in Accounting with a 3.4 GPA or higher may waive the GMAT requirement.

To transfer classes taken during the Certificate program into the MS program, students must earn a B or better in the course.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 15

Course Requirements

Required Courses – Credits: 15

Complete five graduate-level Accounting (ACC) courses (at least four of which must be at the 700-level).
The following courses may not be used toward the Advanced Graduate Certificate in Accounting:

- ACC 600 - Accounting Environment
- ACC 601 - Financial Reporting I
- ACC 602 - Financial Reporting II
- ACC 609 - Accounting Information Systems
- ACC 610 - Federal Taxation
- ACC 670 - Auditing and Assurance Services
- ACC 673 - Law For Accountants I

Certificate Requirements

1. Completion of a minimum of 15 credit hours of ACC courses.
2. A minimum of 12 credit hours of 700-level courses.
3. A grade point average of at least 3.00 for course work required for the certificate.
4. No grade lower than C is acceptable.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Accounting (ON HOLD)

Program is on hold and is not currently accepting applications.

Plan Description

This certificate is designed to prepare professionals, who may be switching careers or those entrepreneurs who want accounting skills to better run their business, with fundamental knowledge in accounting. Successful completion of the Graduate Certificate in Accounting will prepare students to enter the Advanced Graduate Certificate in Accounting or the M.S. in Accountancy program. This Graduate Certificate in Accounting coupled with the Advanced Graduate Certificate in Accounting will provide professionals without an undergraduate degree in accounting the needed accounting credits to sit for the Certified Public Accounting (C.P.A.) exam.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines - Program is on hold and is not currently accepting applications.

Applications available on the UNLV Graduate College website. Admission requirements include an undergraduate degree with a 2.75 GPA or higher and successful completion of two undergraduate accounting courses (ACC 201 – Introduction to Financial Accounting or equivalent and ACC 202 – Introduction to Managerial Accounting or equivalent).
Master of Science - Accounting

This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Master of Science – Accounting is a professional degree designed to enhance the skills of those planning careers in accounting. The program of study includes training in advanced accounting topics such as auditing, financial accounting, accounting systems, and taxation. The Master of Science - Accounting requires a minimum of 30 credit hours above the bachelor’s degree.

The A.A.C.S.B. - International Association for Management Education accredits the Master of Science – Accounting. The Nevada State Board of Accountancy requires 150 hours of college credits from a college or university approved by the State Board of Accountancy. In combination with an undergraduate degree, the 30 hours required by the Accounting M.S. program should satisfy these requirements.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Each student must satisfy the following requirements for admission into the Master of Science – Accounting:

1. A bachelor’s degree from an accredited college or university.
2. A minimum GPA of 3.00 or higher on a 4.00 scale.
3. Students must have satisfactorily completed introductory financial accounting.
4. A minimum GMAT score of 550 and a minimum score in the 25th percentile or higher on Verbal and a minimum score in the 25th percentile or higher on Quantitative.
5. The GMAT may be waived for UNLV accounting students who have a 3.25 GPA in the core accounting courses (ACC 400, 401, 402, 405, 409, 410 and 470) or equivalent.
6. Compliance with the Graduate College admission standards.

Students who have not completed all the following courses (or equivalent courses) as part of their bachelor’s degree may be required to complete them as a condition of their admission prior to graduation from the Master of Science – Accounting:

- ACC 600 - Accounting Environment
- ACC 601 - Financial Reporting I
- ACC 602 - Financial Reporting II
- ACC 609 - Accounting Information Systems
- ACC 610 - Federal Taxation
- ACC 670 - Auditing and Assurance Services
- ACC 673 - Law For Accountants I

Note: These courses will not count toward the 30 credits required for the Master of Science – Accounting.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 30

Course Requirements

Accounting Courses – Credits: 15

Complete five 700-level Accounting (ACC) courses.

Elective Courses – Credits: 12

Complete four graduate level Accounting or Non-Accounting elective courses from approved list.

Capstone Course – Credits: 3

Select one of the following courses based on the area of the accounting profession you wish to pursue:

- ACC 701* - Federal Tax Topics
- ACC 706 - Auditing Theory and Applications
- ACC 715 - Advanced Management Accounting

Degree Requirements

1. A minimum of 18 credits must be taken within Accounting.
2. A minimum of 18 credits must be in 700-level courses.
3. A maximum of 12 credits may be taken outside of Accounting.
4. The student and the department graduate program coordinator will design each degree program.
5. Students seeking a Master of Science – Accounting must comply with all general university requirements as outlined in the Graduate Catalog. In addition, the above requirements must be satisfied, and exceptions or modifications of the program and requirements must be approved by the Graduate Coordinator.

Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
ACC 600 - Accounting Environment Credits 3
Explores the accounting profession, accounting information systems, internal controls, accounting decision-making, the accounting process and financial accounting, and accounting research. Notes: This course is crosslisted with ACC 400. Credit at the 600-level requires additional work. Prerequisites: ACC 201 and Graduate degree seeking.

ACC 601 - Financial Reporting I Credits 3
Study of current accounting objectives, principles, theory, and practice in the preparation, interpretation, and analysis of general purpose financial statements for external users, as established by the Financial Accounting Standards Board and predecessor organizations. Notes: This course is crosslisted with ACC 401. Credit at the 600-level requires additional work. Prerequisites: ACC 400 or ACC 600 and Graduate degree seeking.

ACC 602 - Financial Reporting II Credits 3
Continuation of the study of current accounting objectives, principles, theory, and practice in the preparation, interpretation, and analysis of general purpose financial statements for external users, as established by the Financial Accounting Standards Board and predecessor organizations. Notes: This course is crosslisted with ACC 401. Credit at the 600-level requires additional work. Prerequisites: ACC 401 or ACC 601. Graduate degree seeking.

ACC 605 - Cost Management and Control Credits 3
Provides a thorough understanding of cost accounting theory and practice with emphasis on product costing concepts and methods, the use of cost information for strategic planning and decision analysis, and current cost topics including the influence of technology on accounting. Notes: This course is crosslisted with ACC 405. Credit at the 600-level requires additional work. Prerequisites: Graduate degree seeking.

ACC 606 - Auditing in the Gaming Industry Credits 3
Auds of gaming entities; terminology; regulatory requirements and the associated compliance audit requirements; control systems and the inherent risks unique to the gaming industry. Notes: This course is crosslisted with ACC 406. Credit at the 600-level requires additional work. Prerequisites: ACC 600 or ACC 400. Graduate degree seeking.

ACC 607 - Governmental and Not-for-Profit Accounting Credits 3
Study of the rules and procedures for accounting under the fund accounting principles of GASB. Entities covered are state and local governments and governmental not-for-profit organizations. Fund types include Governmental Funds, Proprietary Funds, and Trust & Agency Funds. Notes: This course is crosslisted with ACC 407. Credit at the 600-level requires additional work. Prerequisites: ACC 401 or ACC 601. Graduate degree seeking.

ACC 609 - Accounting Information Systems Credits 3
Promotes business solutions through the use of information technology. Tools and topics may include accounting software, databases, cycle-based analysis of internal controls, system documentation techniques, and data modeling. Notes: This course is crosslisted with ACC 409. Credit at the 600-level requires additional work. Prerequisites: ACC 400 or ACC 600. Graduate degree seeking.

ACC 610 - Federal Taxation Credits 3
Introduction to a broad range of tax concepts and types of taxpayers, including corporations, pass-through entities, and sole proprietorships. Emphasizes the role of taxation in the business decision process, and provides students with the ability to conduct tax research, compliance and planning. Notes: This course is crosslisted with ACC 410. Credit at the 600-level requires additional work. Prerequisites: ACC 201 and Graduate degree seeking.

ACC 612* - Fraud Examination Credits 3
Covers the pervasiveness of and causes of fraud and white-collar crime; explore methods of fraud detection, investigation and prevention; and increase your ability to detect material financial statement fraud. Emphasis on real world cases, and current newspaper and journal articles. Notes: This course is crosslisted with ACC 412. Credit at the 600-level requires additional work. Prerequisites: ACC 409 or ACC 609. Graduate degree seeking.

ACC 620 - Internal Auditing Credits 3
Study of internal auditing as an independent, objective assurance and consulting activity designed to add value and improve an organization’s operations. Emphasis on communication and analytical skills. Notes: This course is crosslisted with ACC 420. Credit at the 600-level requires additional work. Prerequisites: ACC 401 or ACC 601. Graduate degree seeking.

ACC 670 - Auditing and Assurance Services Credits 3
Environment of auditing and other assurance services, including professional standards, ethics and legal liability. Techniques and procedures employed in gathering audit evidence and reporting requirements. Notes: This course is crosslisted with ACC 470. Credit at the 600-level requires additional work. Prerequisites: ACC 601 and taken or concurrent enrollment in ACC 609.

ACC 673 - Law For Accountants I Credits 3
Introduction to law and the court system; introduction to torts; contracts and sales; real and personal property. Notes: This course is crosslisted with ACC 473. Credit at the 600-level requires additional work. Prerequisites: Graduate degree seeking.

ACC 701* - Federal Tax Topics Credits 3
Advanced tax topics involving corporations, proprietorships, and individuals. Prerequisites: ACC 410 or ACC 610 or equivalent.

ACC 702 - Financial Reporting Topics Credits 3
Advanced accounting principles, theory, and practice used in the preparation, interpretation, and analysis of general purpose financial statements for external users. Grading Letter grade Prerequisites: ACC 402 or ACC 602 or equivalent.

ACC 703 - Issues in Federal Taxation Credits 3
Broad survey course that examines an array of topics using the Internal Revenue Code, Treasury Regulations, court cases and IRS rulings. Topics include income recognition and exclusions, capitalizations, deductions, fringe benefits, capital assets, tax free exchanges and other topics. Prerequisites: ACC 410 or ACC 610 and Graduate degree seeking

ACC 705 - Research Methods in Federal Taxation Credits 3
Federal tax research methodology as related to practical problem solving in the areas of accounting practice and administrative tax procedures before the Internal Revenue Service and the United States Tax Court. Prerequisites: ACC 410 or ACC 610 and Graduate degree seeking.

ACC 706 - Auditing Theory and Applications Credits 3
Examination of the changing business environment of the auditor and the impact of these changes on auditing philosophy, objectives, and methodology. Contemporary issues in auditing examined. Prerequisites: ACC 470 or ACC 670 and Graduate Degree seeking.

ACC 709 - Systems Theory and Applications Credits 3
Through readings and case studies, the course develops knowledge needed in the accounting information systems field from advanced topics that focus on design and implementation issues of enterprise systems. Emerging issues in the application of technology to accounting information systems and IT auditing tools and risk assessment are also examined. Prerequisites: ACC 409 or ACC 609 and Graduate degree seeking.

ACC 707 - Advanced Management Accounting Credits 3
This course covers current issues impacting management accounting. An emphasis will be placed on ethics and management control systems. Prerequisites: Graduate degree seeking.

ACC 725 - Mergers, Acquisitions and Divestitures Credits 3
Accounting concepts, practices, and procedures involved in accounting for business combinations, multinational-national corporations, and divestitures. Prerequisites: ACC 401 or ACC 601 or equivalent.

ACC 740 - Taxation of Corporations and Shareholders Credits 3
Federal income tax problems of corporations and shareholders including organization, capital structure, distributions, undistributed income, stock redemptions and partial liquidations. Prerequisites: ACC 410 or ACC 610 or consent of instructor.
ACC 745 - Taxation of Partnerships  Credits 3
Tax considerations of organization and operation of partnerships. Partnership distributions, withdrawal of partners, problems upon death of a partner, dissolution of partnership, and sale of an interest. Prerequisites: ACC 410 or ACC 610 or consent of instructor.

ACC 749 - Seminar in Estate Planning  Credits 3
Estate and gift taxation with consideration of estate planning devices, generation skipping transfer tax, marital deduction and liquidity problems. Prerequisites: ACC 410 or ACC 610 or equivalent.

ACC 774 - Law for Accountants II  Credits 3
Law of commercial paper; secured transactions; creditor’s rights; bankruptcy; agency; business organizations (partnerships and corporations); security regulation. Prerequisites: Graduate degree seeking.

ACC 775R - Research Seminar in Accounting  Credits 3
This course is intended to introduce students to academic accounting research through participation in research seminars, evaluation of research papers and preparation of a research proposal. Students will also learn about academic careers in accounting. Notes: May be repeated to a maximum of six credits. Grading: Letter grade

ACC 781 - Internship  Credits 3
Supervised professional learning experience in accounting with business firms, nonprofit organizations or government agencies. Project report required. Prerequisites: Admission to MS Accounting program.

ACC 789 - Seminar in Accounting  Credits 3
Study in specialized areas of accounting. Notes: May be repeated to a maximum of six credits. Prerequisites: ACC 701*, ACC 702, ACC 725 and ACC 774 and have the requisite credits to sit for the CPA exam.

ACC 790 - Independent Study in Accounting  Credits 3
Individual directed study of a topic not covered in other courses. Prerequisites: Approval of instructor.

ACC 791 - Professional Paper  Credits 3
Professional paper preparation, including review of literature or similar research effort.

BLW 650 - Law of the Internet  Credits 3
Focus on the legal and ethical environment of doing business over the Internet. Topics include personal jurisdiction in cyberspace, electronic speech, privacy and data collection, on-line contracting, intellectual property, cybercrime and security, consumer protection, taxation, and Internet transactions involving securities. Notes: This course is crosslisted with BLW 450. Credit at the 600-level requires additional work.

Business Administration Programs
Excellence is rarely achieved by sitting still. Faced with a global competitive business environment and supported by new information and communication technologies, organizational structures are changing. Success in the new marketplace requires teams of executives working across functions and across borders. The Lee Business School (LBS) MBA programs offer students practical and theoretical applications that will provide them with a well-rounded business education. The LBS offers full/part-time evening MBA with concentrations in finance, human resources management, marketing, management information systems and new venture management. Students also have the option to pursue one of four dual programs: the MBA/JD (Juris Doctor), the MBA/DDM (Doctor of Dental Medicine), the MBA/MS in Hotel Administration and the MBA/MS in Management Information Systems. Students choose UNLV due to its “location, flexibility and affordability”.

Courses are offered through our evening MBA Program or Executive MBA Program. The evening MBA program students have an average of 5 years of work experience and a majority of them remain employed while pursuing their MBA. Executive MBA students average thirteen years of work experience with 10 in management roles; they bring their collective experience to the classroom to enhance the learning environment. Both programs provide students with a diverse learning environment through the undergraduate degrees students hold, the careers they work in, and the countries and cultures that they represent.

Our faculty members are committed to the continuous quality improvement of the curriculum and teaching, to increased vertical and horizontal integration of course material and to team learning. To achieve the best outcome, the faculty members embrace no single teaching method, but rather employ a combination of methods best suited to the particular objectives of the course. Lectures, group discussions, guest speakers, seminars, case studies, computer simulations, and individual and group research projects are frequently used within courses and across the curriculum.

All programs offered by the Lee Business School at UNLV are accredited by A.A.C.S.B. -- The Association to Advance Collegiate Schools of Business.

Graduate Non-Degree Seeking Students
Students may be considered to take courses as a non-degree seeking student before being admitted to the program if the following conditions are met. Students must have a current application for admission on file and satisfy the minimum admission requirements for the upcoming semester, including GMAT. Students must receive the approval of the MBA director before enrolling in graduate courses offered by the Lee Business School. Approval may be granted for one semester only and for a maximum of 6 credit hours. Approval is restricted to the courses in the first half of the MBA core curriculum.

Chin-Chun (Vincent) Hsu, Ph.D., CMA. Graduate Coordinator - MBA Director
Nikkole Liesse, M.B.A., Graduate Coordinator - EMBA Director
Accounting Faculty

Department Chair
Cornell, Robert – Full Graduate Faculty Associate Professor; B.S., Truman State University, Ph.D., University of Utah; CMA. Rebel since 2017.

Graduate Coordinator
Charron, Kimberly - Full Graduate Faculty CMA. Rebel since 1997.

Faculty
Hamilton, Erin - Full Graduate Faculty Ph. D., University of South Carolina; CPA, Ohio. Rebel since 2013.

Jones, Donald - Associate Graduate Faculty Assistant Faculty-In-Residence; B.S.B.A., Bowling Green State University; J.D., University of Akron; LL.M., Georgetown University; CPA, Texas, Washington D.C. Rebel Since 2011.

Moores, Charles T. - Full Graduate Faculty Professor; B.S., University of Arkansas at Little Rock; M.S., Ph.D., Louisiana State University; CPA, Texas. Rebel since 1989.

Navarro-Velez, Patricia – Full Graduate Faculty Assistant Professor; B.S.B.A., University of Puerto Rico; M.B.A., Bowling Green State University; Ph.D. University of Central Florida; CISA. Rebel since 2019

Perez, Frank - Associate Graduate Faculty Assistant Faculty-In-Residence; B.S.B.A., University of Nevada, Las Vegas; J.D., California Western School of Law. Rebel since2018.

Perri, Tammy - Associate Graduate Faculty Lecturer; B.S., Minnesota State University - Moorhead; M.S. University of Mary; CPA, North Dakota. Rebel since 2014.

Raschke, Robyn - Full Graduate Faculty Professor; B.B.A., M.ACC., University of Georgia; Ph.D., Arizona State University; CPA, Georgia. Rebel since 2007.

Suh, Ikseon – Full Graduate Faculty Assistant Professor; B.A., M.F., Instituto Tecnologico Autonomo de Mexico - ITAM; M.A., Ph.D. Southern Illinois University - Carbondale. Rebel since 2017

Saiewitz, Aaron – Full Graduate Faculty Assistant Professor; B.S., Fairleigh Dickinson University; Ph.D. University of Massachusetts – Amherst; CPA, New Jersey and Massachusetts. Rebel since 2014

Siciliano, Daniel - Associate Graduate Faculty Senior Lecturer; B.S.B.A., M.B.A., University of Nevada, Las Vegas; CPA, Nevada; CGMA; CMA; CFM. Rebel since 2012.

Smith, Jason L. - Full Graduate Faculty Associate Professor; B.S., M.ACC., Brigham Young University; Ph.D., University of Arizona; CPA, Colorado. Rebel since 2008.

Tandy, Paulette R. - Full Graduate Faculty Associate Professor; B.S., Appalachian State University; MBA, Ph.D., Texas A&M; CPA, North Carolina. Rebel since 1989.

Zimmerman, John - Full Graduate Faculty Associate Professor; B.S., Glassboro State College; M.S., Golden Gate University; J.D., Southwestern University School of Law; CPA, California and New Jersey. Rebel since 1989.

Professors Emeriti
Baldwin, Duane E. Emeritus Professor; B.S., M.A., San Jose State University; D.B.A., University of Southern California; C.P.A., Nevada, Utah. UNLV Emeritus 1975-1996.

Milne, Ronald A. Emeritus Associate Professor; B.S., Arizona State University; MBA, Michigan State University; Ph.D., University of Illinois. UNLV Emeritus 1983-2000.

Business Administration Courses

Graduate Certificate in Business Administration
Executive Master of Business Administration
Master of Business Administration
Dual Degree: Master of Business Administration & Doctor of Dental Medicine
Dual Degree: Master of Business Administration & Master of Science - Hotel Administration
Dual Degree: Master of Business Administration & Juris Doctor
Dual Degree: Master of Business Administration & Master of Science - Management Information Systems

Graduate Certificate in Business Administration

This program is accredited by: AACSBB. More information can be found at: unlv.edu/provost/vpaa/accrreditation

Plan Description

The Lee Business School MBA Programs office recognizes that many admitted UNLV degree-seeking graduate students would like to obtain advanced knowledge in business administration and are unable to commit to a full MBA degree program. The Graduate Certificate in Business Administration (GCBA) demonstrates the individual’s desire to master his/her professional field and seek new knowledge about business administration. To earn this certificate, students must complete five core, functional business areas. These areas pertain to accounting, economics, finance, management, and marketing. All coursework from this GCBA can be applied toward an MBA, should students choose to pursue an MBA at the Lee Business School in the future.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All degree-seeking graduate students in good standing in any graduate program on the UNLV campus are automatically eligible to apply to GCBA program.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

Total Credits Required: 15

Course Requirements

Required Courses – Credits: 15

Complete the following five courses:

- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis

Certificate Requirements

1. Completion of a minimum of 15 credit hours.
2. A grade point average of at least 3.00 for course work required for the certificate.
3. No grade lower than C is acceptable.

Plan Certificate Completion Requirements

1. Accepted students must maintain an overall GPA of 3.0. Certificates will be awarded upon the student’s successful completion of all certificate requirements.
2. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Executive Master of Business Administration

This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Executive Master’s in Business Administration (EMBA) program of study offers an integrated blend of theory and practice and provides a general management emphasis that fosters the professional growth of mid- and upper-level career executives. It provides opportunities for integrating professional experiences with academic management curriculum.

The program is designed to provide a holistic educational experience. Courses are sequenced to assure continuity in learning. Through a lock-step format and an innovative curriculum, a group of highly motivated students are placed in a collaborative, proactive, integrative, and team oriented learning environment.

The students go through the program as a cohort, with the course schedule set at the beginning of the cohort’s program. Students complete the program in 18 months. Classes typically meet every other Friday and Saturday. All students complete the program as a group. This provides a unique cohort experience that enhances teamwork throughout the program.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The student must satisfy the minimum requirements of the Graduate College and the EMBA program. The candidate must meet the following requirements:

1. Submission of completed application form and the required $100 nonrefundable application fee.
2. Submission of official transcripts of all college-level course work previously taken and evidence of having been awarded the equivalent of a U.S. bachelor’s degree from an accredited college or university with an overall undergraduate grade point average of at least 2.75 on the four-point scale.
3. Official results of the Executive Assessment or GMAT test. Applicants may indicate test scores and date taken on the application or indicate the expected exam date; however, official copies of the GMAT scores must be submitted to the Lee Business School EMBA Program Office.
4. Evidence of 7 or more years of work experience, a minimum of 3 years management experience.
5. Two letters of recommendation, at least one from the applicant’s current or previous employer and one from someone who can evaluate the applicant’s potential for success in a graduate degree program.
6. Resume.

7. Statement of Intent – In two to three pages, describe why you believe you are the ideal EMBA candidate, how the program fits into your career and/or personal goals, and what skills and talents you possess that will benefit the cohort.

8. A personal interview.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

All entering students are required to have competency in two areas. First, the applicant must be skilled in the use of word processing and spreadsheet programs. Second, the applicant must possess strong mathematical skills through college algebra. It is the applicant’s responsibility to provide satisfactory evidence of these skills.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 43

Course Requirements

Required Courses – Credits: 40

- EMBA 701 - Leadership and Team Effectiveness
- EMBA 702 - Laws, Regulations and Ethics
- EMBA 703 - Microeconomic Analysis for Business Decision Making
- EMBA 704 - Technology Innovation: Theory and Practice
- EMBA 705 - Applied Statistics
- EMBA 707 - Financial Accounting for Managers
- EMBA 708 - Global and Macroeconomic Environment for Business
- EMBA 709 - Organization Behavior
- EMBA 710 - Business Finance
- EMBA 711 - Managerial Accounting
- EMBA 712 - Seminar in Financial Management
- EMBA 713 - Principles of Marketing Strategy
- EMBA 714 - Management of Entrepreneurial Organizations
- EMBA 715 - Strategic Management: Business Strategy and Corporate Strategy
- EMBA 716 - International Business
- EMBA 717 - Negotiations and Conflict Resolution
- EMBA 719 - Executive Assessment and Development
- EMBA 722 - Service Operations
- EMBA 723 - Applied Strategic Marketing

Capstone Course – Credits: 3

- EMBA 720 - International Seminar

Degree Requirements

1. The candidates must successfully complete the 43 credits of required EMBA courses.

2. The content of the courses is customized to meet the need of executives. Classes generally meet on Friday and Saturday every other weekend. Classes are from 8:30 a.m. to 12:30 p.m. and 1:30 p.m. to 5:30 p.m. each day. Students must be able to make a commitment to attend all classes.

3. Each cohort takes an international trip. The International Seminar requires students to learn about the culture and business practices of the countries to be visited.

4. The academic performance of students is reviewed on a regular basis. If it is determined that a student is not making satisfactory progress toward meeting degree requirements, or if the student’s overall GPA falls below 3.00, the student will be placed on probation. Conditions and deadlines for the removal of probation will be specified. Failure to meet the conditions will result in separation from the EMBA program. Graduation requires a minimum overall GPA of 3.00.

5. Withdrawing from a class is considered as being unsuccessful in that course and in the program and will result in dismissal from the program. A student who, due to extraordinary circumstances, is forced to withdraw from a course, and is subsequently dismissed from the program, may appeal to the Director of the EMBA Program.

6. Students who do not successfully complete a course in their EMBA program may replace the course with a similar course taken from the regular MBA program at UNLV or with another EMBA cohort at UNLV. The substitution requires the approval of the Director of the EMBA Program in the Lee Business School and is discouraged. Substitution will be possible only under the most unusual circumstances. In no case may more than two courses be substituted.

Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
Dual Degree: Master of Business Administration & Master of Science - Hotel Administration

Plan Description

This is a dual degree offered by the Lee Business School in conjunction with the William F. Harrah College of Hospitality. The MBA/MS HOA study is designed for those who seek career and business leadership opportunities in hotel administration. The programs will provide students with the needed skills, knowledge, and tools to become visionary and creative business leaders in hotel administration. The core MBA program is designed to advance the knowledge and practice of business and administration. The MS – Hotel Administration portion of the dual degree is designed to provide the industry-specific knowledge and skills in hospitality and tourism. The program takes advantage of the natural learning environment that is created by the hospitality industry in Las Vegas economy, the entertainment capital of the world. Students will receive a two degrees, an MBA and a MS – Hotel Administration.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The admission requirements for the dual degree are the same as those stated under the MBA and MS HOA programs. The only exception is that the dual MBA program only accepts the GMAT for admission. All dual degree program applicants are required to show that they have at least one year of full-time management/supervisory experience or three years of cumulative full-time front-line experience in the hospitality industry.

Application Process

See the Application Process section under the MBA and the MS HOA programs. Applications will be reviewed by representatives of the Lee Business School and the William F. Harrah College of Hospitality in an independent process within each college. Applicants must be admitted to both the Lee Business School and the William F. Harrah College of Hotel Administration to qualify for the dual degree program for that term.

Application Deadline

Refer to the Graduate College website for specific deadlines. All documentation and application materials must be received by the Graduate College, the William F. Harrah College of Hospitality Graduate Studies Office, and the Lee Business School by the deadline for the application to be considered. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track

Total Credits Required: 51

Course Requirements

Total Credits Required for the Business Administration
M.B.A.: 30

MBA Core Required Courses – Credits: 18
• MBA 761 - Accounting for Managers
• MBA 763 - Leadership, Teams, and Individuals
• MBA 765 - Financial Decision Making
• MBA 767 - Market Opportunity Analysis
• MBA 769 - Applied Economic Analysis
• MBA 775 - Data Modeling and Analysis

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School.

Capstone Course – Credits: 3
• MBA 787 - Strategic Management

Total Credits Required for the Hotel Administration M.S.: 21

Required Courses – Credits: 12
• HOA 703 - Human Resources Management in the Hospitality Industry
• HOA 711 - Laws of Innkeeping and Food Service
• HOA 735 - Research Methodology
• HOA 777 - Critical Issues in Hospitality Management

Management Elective Course – Credits: 3
Complete one of the following courses:
• HOA 716 - Principles and Practices in Hotel Management
• HOA 717 - Principles and Practices in Convention and Meetings Management
• HOA 718 - Principles of Casino and Gaming Management
• HOA 720 - Principles and Practices in Food Service Management

Thesis – Credits: 6
• HOA 789R - Thesis

Degree Requirements

1. Completion of a minimum of 30 credits of MBA courses and a minimum of 21 credits of HOA.
2. A grade point average of at least 3.00 for course work required for the degree.
3. No grade lower than C is acceptable.

4. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

5. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

6. In addition to the academic requirements, the Harrah Hospitality College requires 500 hours of acceptable employment experience in the hospitality industry. The work experience requirement requires the student to find employment, but carries no academic credit and may be earned outside Nevada and during the summer. This work experience will be evaluated qualitatively as well as quantitatively, and may be waived at the discretion of the program coordinator. International students must go to the Office of International Students and Scholars to verify employment eligibility.

Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.

3. The student must successfully complete the MBA capstone course.

4. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

5. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Professional Paper Track
Total Credits Required: 51

Course Requirements
Total Credits Required for the Business Administration M.B.A.: 30

MBA Core Required Courses – Credits: 18
- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School.

Capstone Course – Credits: 3
- MBA 787 - Strategic Management

Total Credits Required for the Hotel Administration M.S.: 21

Required Courses – Credits: 12
- HOA 703 - Human Resources Management in the Hospitality Industry
- HOA 711 - Laws of Innkeeping and Food Service
- HOA 735 - Research Methodology
- HOA 777 - Critical Issues in Hospitality Management

Management Elective Course – Credits: 3
Complete one of the following courses:
- HOA 716 - Principles and Practices in Hotel Management
- HOA 717 - Principles and Practices in Convention and Meetings Management
- HOA 718 - Principles of Casino and Gaming Management
- HOA 720 - Principles and Practices in Food Service Management

Elective Course – Credits: 3
Complete 3 credits of any 500-, 600-, or 700-level HOA course.

Professional Paper – Credits: 3
- HOA 788R - Professional Paper

Degree Requirements

1. Completion of a minimum of 30 credits of MBA courses and a minimum of 21 credits of HOA.

2. A grade point average of at least 3.00 for course work required for the degree.

3. No grade lower than C is acceptable.
4. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

5. The Hotel Administration portion of the dual degree program requires successful completion of a professional paper that must adhere to the standards in the American Psychological Association’s current publication manual regarding writing style and format. This paper must be completed at the end of the dual program.

6. In addition to the academic requirements, the Harrah Hospitality College requires 500 hours of acceptable employment experience in the hospitality industry. The work experience requirement requires the student to find employment, but carries no academic credit and may be earned outside Nevada and during the summer. This work experience will be evaluated qualitatively as well as quantitatively, and may be waived at the discretion of the program coordinator. International students must go to the Office of International Students and Scholars to verify employment eligibility.

Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.

3. The student must successfully complete a professional paper and the MBA capstone course.

Master of Business Administration

This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Lee Business School MBA Programs at UNLV are designed for those who seek global career and leadership opportunities. The world is changing quickly and today’s business leaders are faced with new challenges in a complex business environment supported by new communication technologies and organizational structures. Success in the new global marketplace requires teams of executives working across functions and across borders.

The MBA programs at UNLV prepare students to succeed in today’s business environment by providing them with the needed skills, knowledge, and tools to become visionary and creative leaders. The program focuses on ethics and critical thinking, business communications, the role of the firm and its goals and markets, firms’ strategic planning and positioning, supply chain management, international business culture, information technology, leadership, and teamwork. Our faculty and administration are committed to fulfilling the recently revised college mission: to advance the knowledge and practice of the disciplines that constitute business and administration and to foster the intellectual and economic vitality of Nevada and the Intermountain Region through teaching, research, and outreach. Our faculty are committed to continuous quality improvement of the curriculum. To achieve the best outcome, the faculty embrace no single teaching method, but rather employ a combination of methods best suited to the particular objectives of the course. Lectures, group discussions, seminars, case studies, computer simulations, and individual and group research projects are frequently used within courses and across the curriculum.

MBA Program Highlights

- A holistic approach to business management which starts with the role of the firm, its goals and markets, its strategic planning and positioning, and supply chain management.
- Explicit emphasis on a framework for analysis of ethical issues and critical thinking.
- A greater emphasis on international studies through a specific course in international business and cross-cultural perspective and a greater internationalization of other courses.
- An evening MBA Program accommodating the needs of both full-time and part-time students by allowing students to complete their degree at a pace that fits their personal schedule.
- Students can take 2, 3 or 4 courses per semester enabling them to finish in the time frame of their choice. The cohort experience enables students to bond and network with each other in the program.
- Up to nine hours of electives provides greater flexibility in tailoring programs of study to each student’s needs and interests.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
Transfer Credit and Prior Course Work

Up to 12 graduate credit hours may be transferred if taken at AACSB accredited business schools within the last 5 years and a grade of B (3.00) or better is achieved. Graduate work taken pass/fail is not transferable toward the MBA degree. This transfer credit is limited by the requirement that a student must take a minimum of 30 credit hours of graduate classes from the UNLV Lee Business School to earn an MBA degree. Requests for transfer course work must be evaluated and approved by the MBA Director after the student is officially admitted.

Leave of Absence, Probation, and Suspension

Student academic performance is reviewed twice a year. Admitted students must enroll for courses every semester, excluding Summer Term, and must complete at least 6 credit hours every year. A leave of absence can be granted for up to one or two academic year(s) with prior approval from the MBA Director and Graduate College. A student will be placed on probation if it is determined that a student is not making satisfactory progress toward meeting degree requirements or if the student’s overall MBA program GPA falls below 3.00. Conditions and deadlines for the removal of probation will be specified. Failure to meet the conditions will result in separation from the MBA program.

Programs

Business Administration & Dental Medicine Dual M.B.A./D.M.D.
Business Administration & Hotel Administration Dual M.B.A./M.S.
Business Administration & Juris Doctor Dual M.B.A./J.D.
Business Administration & Management Information Systems Dual M.B.A./M.S.
Business Administration Executive M.B.A.
Business Administration M.B.A.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The Lee Business School MBA Program welcomes applications from college graduates in all disciplines. Applicants must hold a bachelor’s degree from an accredited college or university. Graduates from all majors are encouraged to apply. Applicants are evaluated based upon proven scholastic ability, performance on the Graduate Management Admission Test (GMAT), maturity, motivation, leadership, communication skills, and possess the interest and ability to assume business leadership responsibilities.

MBA 741 – Internship (3 credits) is required for students without relevant business work experience. This requirement may be waived at the student’s request and with proof of relevant work experience.

The Application Process

Admission to the graduate business program is conducted by the Lee Business School MBA Programs and the UNLV Graduate College. Please note that the responsibility of obtaining and submitting the application material, transcripts, test scores and other necessary information rests upon the applicant. In addition, international students must provide proof of English proficiency if the student’s degree is from an institution where English is not the language of instruction.

Refer to the Graduate College Admission & Registration Information contained in this catalog for a complete description of materials and processes required for admission consideration.

Application

Application to the MBA and Dual Programs require the following documentation.

1. Official results of the GMAT test. You may indicate your test score and date taken on the application or indicate your expected exam date; however, official copies of the GMAT scores must be submitted to the Lee Business School MBA Programs Office.
2. A copy of the applicant’s current resume.
3. Two letters of recommendation, academic or professional, from persons competent to judge the applicant’s potential to pursue graduate work successfully.
4. A one to two page statement of purpose.
5. Evidence of a minimum of two years of relevant work experience preferred.
6. Evidence (official transcript) of an undergraduate Grade Point Average (GPA) of 3.00, or higher, on a four-point scale.
7. With the exception of the GMAT, required materials listed above are to be uploaded into the Graduate College online application. The MBA program does not require a separate application.

Graduate Management Admission Test

Applicants must meet the Graduate Management Admission Test (GMAT) score of 550 or higher with each component over the 25th percentile. The test score should be reflective of both, verbal and quantitative aptitude. GMAT scores over five years old are not considered. The average score of accepted students over the last two years is about 600. The computer adaptive GMAT is offered on a continuous basis by appointment at one of approximately 400 locations throughout North America. For further information contact:

Graduate Management Admission Test
1-800-717-GMAT (4628)
website: www.mba.com
e-mail: GMATCandidateServicesAmericas@perason.com
Applicants with demonstrated potential, a strong undergraduate academic record, and a strong GMAT score, are admitted with graduate standing. Students may be considered for admission on a provisional basis if their undergraduate academic record and/or GMAT score are not sufficiently strong to be considered for full graduate standing. Applicants with a GPA less than 3.00 but not lower than 2.75, OR a GMAT score less than 550 but not lower than 520, with each component over the 25th percentile, may be considered for provisional admission. A graduate provisional student must complete the first nine credit hours of core courses taken in the program. The courses are approved in advance and are listed on the “Letter of Admission.” The student must complete this course work within the first two consecutive enrollment periods (excluding Summer Term) and earn individual grades of B (3.00) or above (B- is not acceptable) before any other additional course work may be taken. Failure to complete this course work in the allotted time, or any grades less than B, will result in cancellation of the student’s admission. Upon completion of the nine hours with grades of B or better, the Lee Business School will recommend to the Graduate College that the student be given graduate standing status. The Graduate College will then change the student’s status to graduate standing.

Prior to their first semester in the program, all admitted students are required to attend a noncredit orientation program. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Finance Concentration Track

Subplan 2 Requirements: General MBA Track

Subplan 3 Requirements: Human Resources Management Track

Subplan 4 Requirements: Management Information Systems Track

Subplan 5 Requirements: Marketing Track

Subplan 6 Requirements: New Venture Management Concentration Track

Subplan 7 Requirements: Health Care Management Track

Subplan 1: Finance Track

Total Credits Required: 42

Course Requirements

Required Courses – Credits: 18

• MBA 761 - Accounting for Managers

Electives – Credits: 21

Complete 21 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3

• MBA 787 - Strategic Management

Degree Requirements

1. The MBA degree requires a minimum of 42 credit hours of approved course work.

Subplan 2: General MBA Track

Total Credits Required: 42

Course Requirements

Required Courses – Credits: 18

• MBA 761 - Accounting for Managers

Electives – Credits: 21

Complete 21 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3

• MBA 787 - Strategic Management

Degree Requirements

1. The MBA degree requires a minimum of 42 credit hours of approved course work.
2. All requirements listed above must be completed successfully as defined by the Lee Business School and the Graduate College. All required courses are sequenced so students may acquire the tools and skill they need for success in the program.

Subplan 3: Human Resources Management Track
Total Credits Required: 42

Course Requirements
Required Courses – Credits: 18
- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Human Resources Management Concentration– Credits: 12
- MGT 711 - Seminar in Negotiation
- MGT 712 - Change Management
- MGT 740 - Effective and Applied Human Resources Management
- MGT 745 - Contemporary Topics in Human Resource Management

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3
- MBA 787 - Strategic Management

Degree Requirements
1. The MBA degree requires a minimum of 42 credit hours of approved course work.
2. All requirements listed above must be completed successfully as defined by the Lee Business School and the Graduate College. All required courses are sequenced so students may acquire the tools and skill they need for success in the program.

Subplan 4: Management Information Systems Track
Total Credits Required: 42

Course Requirements
Required Courses – Credits: 18
- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Management Information Systems Concentration – Credits: 12
Complete 12 credits of graduate-level Management Information Systems (MIS) electives.

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3
- MBA 787 - Strategic Management

Degree Requirements
1. The MBA degree requires a minimum of 42 credit hours of approved course work.
2. All requirements listed above must be completed successfully as defined by the Lee Business School and the Graduate College. All required courses are sequenced so students may acquire the tools and skill they need for success in the program.

Subplan 5: Marketing Track
Total Credits Required: 42

Course Requirements
Required Courses – Credits: 18
- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Marketing Concentration – Credits: 12
- MKT 720 - International Marketing Research
- MKT 777 - Services Marketing

Select 2 of the following courses – Credits: 6
- MKT 725 - Global Consumer Behavior
- MKT 737 - New Service and Product Development
- MKT 747 - Global Digital Marketing Strategies
- MKT 757 - Strategic Database Marketing

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3
• MBA 787 - Strategic Management

Degree Requirements
1. The MBA degree requires a minimum of 42 credit hours of approved course work.
2. All requirements listed above must be completed successfully as defined by the Lee Business School and the Graduate College. All required courses are sequenced so students may acquire the tools and skill they need for success in the program.

Subplan 6: New Venture Management Track
Total Credits Required: 42

Course Requirements
Required Courses – Credits: 18
• MBA 761 - Accounting for Managers
• MBA 763 - Leadership, Teams, and Individuals
• MBA 765 - Financial Decision Making
• MBA 767 - Market Opportunity Analysis
• MBA 769 - Applied Economic Analysis
• MBA 775 - Data Modeling and Analysis

New Venture Management Concentration – Credits: 12
• MGT 709 - New Venture Feasibility
• MGT 710* - New Venture Creation
• MGT 711 - Seminar in Negotiation
• MGT 712 - Change Management

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3
• MBA 787 - Strategic Management

Course Requirements
Required Courses – Credits: 18
• MBA 761 - Accounting for Managers
• MBA 763 - Leadership, Teams, and Individuals
• MBA 765 - Financial Decision Making
• MBA 767 - Market Opportunity Analysis
• MBA 769 - Applied Economic Analysis
• MBA 775 - Data Modeling and Analysis

Health Care Management Concentration – Credits: 12
• HCA 701 - U.S. Health Care System: Programs and Policies

Elective Courses – Credits: 9
Complete 9 credits from the following list of courses:
• HCA 703 - Management of Health Service Organizations and Systems
• HCA 716 - Health Care Accounting and Finance
• HCA 718 - Health Care Economics
• HCA 719 - Operations and Quality Management of Health Services
• HCA 720 - Information Systems in Health Services Management
• HCA 730 - Strategic Management of Health Services
• HCA 761 - Health Care Law and Ethics for Managers

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School. Also students can take up to six credits, 2 courses, that are 600-level courses offered by the Lee Business School.

Capstone Course – Credits: 3
• MBA 787 - Strategic Management

Degree Requirements
1. The MBA degree requires a minimum of 42 credit hours of approved course work.
2. All requirements listed above must be completed successfully as defined by the Lee Business School and the Graduate College. All required courses are sequenced so students may acquire the tools and skill they need for success in the program.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. Successfully complete the capstone course.
Dual Degree: Master of Business Administration & Doctor of Dental Medicine

Plan Description
The University of Nevada, Las Vegas School of Dental Medicine and the Lee Business School offer a dual Doctorate of Dental Medicine (DMD) and Master of Business Administration (MBA) degree program that allows students to be admitted in both programs and achieve the DMD and MBA degrees. As a concurrent program, the dual degree requires that students satisfy the degree requirements of both programs. The dual Master of Business Administration and Doctorate of Dental Medicine (MBA and DMD) program is designed for those who seek career and business leadership opportunities in the field of dentistry. Students will receive two degrees, an MBA and a DMD.

The MBA degree at the Lee Business School requires 42 credit hours. Under the dual degree program 12 credit hours of dental courses are accepted towards the MBA degree.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Applicants to the DMD/MBA program must submit formal applications for admission to both the School of Dental Medicine and to the Lee Business School. Students must meet the requirements for admission to both programs. Admissions requirements are the same as those stated under the DMD and MBA programs. Contact the UNLV School of Dental Medicine and the Lee Business School MBA programs for further information on admissions requirements. Applications from current students in either program will be considered. Entry into the MBA program for students from the School of Dental Medicine will be no earlier than the fall semester of year two of the dental curriculum. However, petitions requesting admission to the dual DMD/MBA program from students at more advanced stages will be considered.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 216

Course Requirements

Total Credits Required for the Business Administration M.B.A.: 30

MBA Core Required Courses – Credits: 18
- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Electives – Credits: 9
Complete 9 credits of electives from any 700-level course offered by the Lee Business School.

Capstone Course – Credits: 3
- MBA 787 - Strategic Management

Total Credits Required for the Doctor of Dental Medicine: 186

Degree Requirements
Students must be admitted to both the DMD and MBA programs with graduate standing. The candidates must successfully complete the 186 credit hours of Dentistry and the 30 credit hours of the MBA required course work.

Furthermore:

1. UNLV School of Dental Medicine cannot award credit for any class taken before matriculation.
2. A maximum of six credit hours of courses taken prior to admission to the DMD/MBA program may be applied towards the MBA degree requirement. This includes all courses taken as a fully admitted graduate MBA student at an AACSB accredited business school, as an admitted dental student at UNLV, or as a non-admitted student at UNLV before admission to the MBA program.
3. DMD/MBA candidates who subsequently decide to pursue only the DMD or only the MBA must complete the degree program in its entirety and are subject to the same rules and requirements as students not pursuing the DMD/MBA program.
4. DMD/MBA may not receive credit for taking courses outside their degree program except as set forth in this document and with prior approval.
5. Student honors and class ranks at the School of Dental Medicine will be computed based solely on dental classes. Student honors and class ranks at the Lee Business School will be computed based solely on business classes.
6. Students in the DMD/MBA program must remain in good standing at both DMD and MBA programs.
7. Students in the DMD/MBA program are subject to the same rules and regulations that apply to all students at the School of Dental Medicine and the Lee Business School.

8. The Lee Business School and the School of Dental Medicine reserve the right to limit participation in the program, including dismissal. Those interested are encouraged to submit a request for permission to participate in the program, along with applications for admission, at the earliest possible time.

Plan Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

3. Successful completion of the capstone course.

Dual Degree: Master of Business Administration & Juris Doctor

Plan Description

The William S. Boyd School of Law and the Lee Business School offer a dual Juris Doctor (JD) and Master of Business Administration (MBA) degree program that allows students to be admitted in both programs and achieve the JD and MBA degrees simultaneously. As a concurrent program, the dual degree requires that students satisfy the degree requirements of both programs. The JD/MBA dual degree requires 80 Law credit hours and 30 MBA credit hours. Under the dual degree program 12 credit hours of Law courses are accepted towards the MBA degree and nine credit hours of MBA courses are accepted towards the JD degree.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the JD/MBA program must submit formal applications for admission to both the William S. Boyd School of Law and to the Graduate College. Students must meet the requirements for admission to both programs. Admission requirements are the same as those stated under the regular JD and MBA programs. For information on the MBA program application procedures, interested individuals should contact the Lee Business School-MBA Program at (702) 895-3655 or go to http://business.unlv.edu or the William S. Boyd School of Law at (702) 895-2440 or go to http://www.law.unlv.edu

While applications from current students in either program will be considered, students normally should seek and satisfy admission to enter both programs upon entering the university. However, petitions requesting admission to the dual JD/MBA program from students at more advanced stages in either program will be considered.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 110

Course Requirements

Total Credits Required for the Business Administration M.B.A.: 30

MBA Core Required Courses – Credits: 18

- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Electives – Credits: 9

Complete 9 credits of electives from any 700-level course offered by the Lee Business School.

Capstone Course – Credits: 3

- MBA 787 - Strategic Management

Total Credits Required for the Juris Doctor: 80

Required Courses - 44 credits

Directed Electives - 18 credits

Free Electives - 18 credits

Degree Requirements

1. Students must be admitted to both the JD and MBA programs with graduate standing. The candidates must successfully complete the 80 credit hours of Law course work and 30 credit hours of the MBA required course work.

2. William S. Boyd School of Law cannot award credit for any class taken before matriculation. JD/MBA candidates must therefore enroll at the School of Law before taking any MBA courses to be counted toward the JD degree.
Plan Graduation Requirements

3. A maximum of six credit hours taken prior to admission to the JD/MBA program may be applied towards the MBA degree requirement. This includes all courses taken as a fully admitted graduate MBA student at an AACSB accredited business school, as an admitted law student at UNLV, or as a non-admitted student at UNLV before admission to the MBA program.

4. JD/MBA candidates who subsequently decide to pursue only the JD or only the MBA must complete the degree program in its entirety and subject to the same rules and requirements as students not pursuing the JD/MBA program. Because students must finish both programs to receive credit toward the JD/MBA, degrees will not be awarded until both programs are finished.

5. JD/MBA candidates must comply with the requirements for all students regarding the maximum amount of time for completion of a degree program. Law students have a maximum of 7 years to complete the J.D. degree. The Graduate College imposes a six-year time limit for completion of a master’s program.

6. JD/MBA candidates may not receive credit for taking courses outside their degree program without prior approval.

7. Student honors and class ranks at the William S. Boyd School of Law will be computed based solely on law classes. Student honors and class ranks at the Lee Business School will be computed based solely on classes taken as business classes.

8. Students in the JD/MBA program must remain in good standing at both JD and MBA programs.

9. Students in the JD/MBA program are subject to the same rules and regulations that apply to all students at the William S. Boyd School of Law and the Lee Business School.

10. The listing of courses does not constitute a binding commitment that the courses will be offered during the student’s course of study or that the graduation requirements will remain unchanged.
EMBA 710 - Business Finance Credits 2
Examines the role of financial management in creating firm value. Covers fundamental business finance topics and the application of basic finance concepts for decision making in a business environment. Taught from the perspective of a senior-level manager. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 711 - Managerial Accounting Credits 2
Focus on the use and potential misuse of accounting data by managers. Provides a foundation for identifying and analyzing decision alternatives and evaluating success in accomplishing organizational goals. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 712 - Seminar in Financial Management Credits 2
Covers major financial management issues pertaining to a firm’s operations. Taught primarily through case discussions and use of spreadsheets in financial analysis. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 713 - Principles of Marketing Strategy Credits 2
Designed to introduce executives to conceptual and analytical frameworks that inform the development and execution of marketing strategy. A blend of readings and case studies will be used to build fundamental knowledge of the discipline and simulate marketing strategy decision making. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 714 - Management of Entrepreneurial Organizations Credits 3
Examines issues involved in developing and managing entrepreneurial organizations. Topics include: why some firms fail while others succeed; stages of growth and organization effectiveness; and management systems in an entrepreneurial context, such as strategic planning, organizational development, and leadership. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 715 - Strategic Management: Business Strategy and Corporate Strategy Credits 3
Explores business strategies (cost leadership, differentiation, tacit collusion, and strategic alliances) and corporate strategies (vertical integration, diversification, merger and acquisition, and globalization strategies.) Economic theories of competition and cooperation. Includes case studies of firms which have successfully or unsuccessfully employed a variety of strategies. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 716 - International Business Credits 2
Problems and opportunities of business in a global context. Examines international economic, institutional, cultural and legal differences and analyzes their impact on business decisions including: product design, production and marketing, human resources strategy; investment analysis; financial strategy and risk management. May be repeated to a maximum of two credits. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 717 - Negotiations and Conflict Resolution Credits 3
Examines the nature of conflict and the negotiation process as a tool for managing conflict. Includes preparing negotiations, negotiating strategies and tactics, organizing negotiating teams, coalition bargaining, the importance of individual difference variables, international issues, the role of third parties, and ethical issues. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 718 - Executive Decision Making: Strategy Formation Processes Credits 2
Explores classic cases and texts on organizational decision-making processes in order to improve participants’ capacities to contribute to the effective manufacturing of organizational decisions. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 719 - Executive Assessment and Development Credits 1
Helps participants to be more capable of understanding and leading change. Includes framework of leadership competency grounded in paradoxical thinking. Leadership concepts presented. Leadership assessment completed for each participant. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 720 - International Seminar Credits 3
Includes problems and environment of international business, which require integrative analysis of these problems. Under faculty supervision, students visit selected international enterprises operating outside the United States and produce a written analysis including specific recommendations. May be repeated to a maximum of three credits. Prerequisites: Admission to the Executive MBA Program and approval of the Dean’s Office.

EMBA 722 - Service Operations Credits 2
This course introduces students to the strategies, concepts, practices, and challenges of successful service operations. This course prepares students to identify and apply appropriate strategies and management processes to ensure efficient, effective, and quality oriented service operations, while achieving operational competitiveness. Prerequisites: Admission to EMBA program and approval of Dean’s Office.

EMBA 723 - Applied Strategic Marketing Credits 2
Designed to give executives the opportunity to apply marketing concepts in an effort to analyze, initiate and change marketing actions. Provides the knowledge and tools needed to analyze marketing problems. Prerequisites: EMBA 713

EMBA 724 - International Seminar Credits 3
Formerly MBA 765. Prerequisites: Admission to the Executive MBA Program and approval of the Director of the MBA Programs. Minimum GPA 3.0.

EMBA 725 - Corporate Risk Management Credits 3
This course will focus on the fundamentals of corporate risk management from a strategic decision-making perspective. The course emphasizes how exposures to strategic, operational, financial and pure risks affect the firm, and how risk exposures can be re-engineered to enhance shareholder value. Topics further include the major sources of risk, the measurement of risk exposures, methods, and strategies of managing and controlling risk. Prerequisites: EMBA 715

EMBA 726 - Financial Decision Making Credits 3
Provides the knowledge and tools needed to analyze marketing concepts in an effort to analyze, initiate and change marketing actions. Requires: EMBA 723

EMBA 727 - Internship Credits 3
Supervised practical experience with a participating local enterprise or government agency, culminating in a written report. Prerequisites: Completion of 12 MBA credits and approval of the Director of the MBA Programs. Minimum GPA 3.0

EMBA 728 - Accounting for Managers Credits 3
Fundamentals of financial and managerial accounting. Topics include accounting’s conceptual framework, preparation and analysis of financial statements, current topics in financial reporting, ethical and legal responsibilities in financial reporting, cost-volume-profit analysis, tactical decision making, budgeting and accounting for management control. Formerly MBA 709. Prerequisites: Admission to MBA Program or approval of the Director of MBA Programs

EMBA 729 - Leadership, Teams, and Individuals Credits 3
Overview of research and theory on organizational behavior with emphasis on the skills required for managerial effectiveness in modern complex organizations including motivating and leading employees, developing effective teams, and managerial communication responsibilities. Formerly MBA 707. Prerequisites: Admission to MBA Program or approval of the Director of MBA Programs

EMBA 730 - Financial Decision Making Credits 3
Focuses on corporate financial management, including cash flow planning, capital budgeting, security valuation, and financing decisions. Includes the concepts of market efficiency and optimal capital structure. Provides useful set of tools to improve the efficiency of business and personal financial decisions. Formerly MBA 711. Prerequisites: MBA 761 admission to M.B.A. program, or approval of the Director of MBA Programs.
MBA 767 - Market Opportunity Analysis Credits 3
Theory and practice of marketing fundamentals applied to the market opportunity analysis. Focus on the marketing concept, planning, international analysis, industry analysis, customer analysis, segmentation, competitive strategies and strategy formulation, product and pricing decisions, positioning, forecasting, and profitability of opportunities. Prerequisites: Admission to the MBA program, NVM Certificate program or approval of the Director of MBA programs.

MBA 769 - Applied Economic Analysis Credits 3
Intensive application of the principles of microeconomic theory to business management problems. Presumes no previous knowledge of economics but moves rapidly to a thorough understanding of the tools of price theory. Topics include scarcity, choice, supply, demand, production, cost, competition, monopoly, present value and decision-making under risk. Prerequisites: Admission to MBA Program or approval of the Director of MBA Programs.

MBA 771 - Law and Ethics Credits 3
Deals with legal, regulatory and ethical environments of business. Provides foundation for recognizing and analyzing legal and ethical issues facing managers. Case studies applying both legal and ethical analysis featured. Prerequisites: Admission to MBA Program or approval of the Director of MBA Programs.

MBA 773 - Managing Information Credits 3
Overview of contemporary information systems and technology issues. Technical, behavioral, organizational and competitive perspectives reviewed. Issues related to impact of information systems on organizational processes and work practices. Information systems strategies, technology implementation and systems analysis and design. Formerly MBA 730. Prerequisites: Admission to the MBA program or approval of the Director of MBA Programs.

MBA 775 - Data Modeling and Analysis Credits 3
Intensive seminar/workshop applying statistical analysis to topics and problems encountered by business managers. Presumes no previous exposure to statistics but moves rapidly to the mastery of statistical analysis tools available on spreadsheet software. Topics include descriptive statistics, hypothesis testing, analysis of variance, simple regression and multiple regression. Formerly MBA 702. Prerequisites: Admission to MBA Program or approval of the Director of MBA Programs.

MBA 779 - Managing Global Supply Chains Credits 3
The study of strategic relationships necessary for supply chain management including the integration of the key value-adding activities across a global network of firms that produce raw materials, transform them into intermediate and then end products, and finally distribute these to end users. Topics include purchasing and supplier relationships, inventory and quality management, distribution, customer relationship management, service response logistics, and future trends in supply chain management from a global perspective. Formerly MBA 720. Prerequisites: Admission to the MBA program or approval of the Director of MBA Programs.

MBA 785 - Global Business Credits 3
Problems and Opportunities of business in a global context. Examines economic, social, political, monetary, and cultural issues faced by companies involved in international business and analyzes their effect on business decisions. Development of a framework for the preparation and implementation of business plans in a global context. Prerequisites: Admission to the MBA program or approval of the Director of MBA Programs.

MBA 787 - Strategic Management Credits 3
Integrates knowledge from specialized functional courses into a CEO perspective. Moves beyond a repertoire of generic strategies toward the formation of unique, firm specific strategies. Builds effective strategies in complex organizational contexts. Prerequisites: To be taken during the student’s final year.

Economics

Students who obtain the M.A. will demonstrate a master’s level understanding of economic theory and will work competently with data and interpret clearly the results of empirical studies. Over the course of the program, M.A. students develop and hone their abilities to solve problems. Communicating the results of economic analysis is a valuable skill in the business world and the program provides students the opportunity to develop their writing and presentation skills. The program produces students with a set of skills that both businesses and policy makers value. M.A. students in economics are attractive candidates for different employers — government agencies, marketing research firms, corporate research and financial departments, and consulting firms. Students interested in pursuing a Ph.D. in economics or finance also benefit from the M.A. in economics. The department welcomes both full and part-time students. Ambitious students can complete the program in one year.

Jeff Waddoups, Ph.D., Chair
Steve Brown, Ph.D., Graduate Coordinator

Economics Faculty

Chair
Waddoups, C. Jeffrey - Full Graduate Faculty Professor; B.A., Ph.D., University of Utah. Rebel since 1989.

Graduate Coordinator
Brown, Stephen P.A. - Full Graduate Faculty Professor; B.S., California Polytechnic State University; M.A., Ph.D., University of Maryland. Rebel since 2010.

Graduate Faculty
Assane, Djipto - Full Graduate Faculty Associate Professor; B.A., University of Abidjan; M.A., University of New Mexico; Ph.D., University of Colorado. Rebel since 1998.

Chen, Lein-Lein - Full Graduate Faculty Professor; B.S., M.S., Florida International University; Ph.D., University of Miami. Rebel since 1993.

Li, Herman - Full Graduate Faculty Assistant Professor; B.A., University of Pennsylvania; Ph.D., Penn State University. Rebel since 2011.

Malamud, Bernard - Full Graduate Faculty Professor; B.S.E.E., Polytechnic Institute of Brooklyn; M.S.I.A., Carnegie-Mellon University; Ph.D., New School for Social Research. Rebel since 1968.

Miller, Stephen M. - Full Graduate Faculty Professor; B.S., Purdue University; M.A., Ph.D., SUNY at Buffalo. Rebel since 2001.

O, Mumpung- Full Graduate Faculty Assistant Professor; B.A., Sung Kyuan Kwan University; M.A., Ph.D., University of California, Santa Barbara. Rebel since 2012.

Riddel, Mary - Full Graduate Faculty Professor; B.A., University of Colorado, Boulder; M.S., Ph.D., Colorado State University, Ft. Collins. Rebel since 1999.

Robinson, William J. - Full Graduate Faculty Assistant Professor; B.A., University of Northern Colorado; M.A., Ph.D., University of Colorado, Boulder. Rebel since 1980.

Schlootmann, Alan - Full Graduate Faculty Professor; B.A., M.A., Ph.D., Washington University. Rebel since 2000.

Tra, Constant - Full Graduate Faculty Associate Professor; B.A., California State University, Chico; M.S., Ph.D., University of Maryland. Rebel since 2007.
Economics offers most graduate courses during evening hours of the University of Nevada, Las Vegas. The Department of general requirements for admission to the Graduate College statistics, is required. As noted below, students must meet quantitative preparation, such as calculus and intermediate macroeconomic theory. In addition, some form of Arts degree requires intermediate microeconomic theory. The department welcomes marketing research firms, corporate research and financial experience. MA graduates in economics possess the skills that provide opportunities for students to obtain valuable work experience. MA graduates in economics possess the skills that prove attractive for different employers—government agencies, marketing research firms, corporate research and financial departments, and consulting firms. The department welcomes both full and part-time students. Please see our web site for more information on the UNLV Graduate College website.

Accomplished UNLV undergraduates must meet all of the following criteria to be eligible for the Advanced Program Track:

1. Receiving at least a B in graduate-level Economics courses completed as an undergraduate
2. Satisfactory completion of Graduate College admission requirements
3. Senior standing
4. Minimum of 3.0 GPA
5. Completion of the following courses with a minimum of 3.5 GPA and no grade lower than B: ECON 262 or ECON 441; ECON 302; ECON 303 and MATH 181

ECON 441; ECON 302; ECON 303 and MATH 181 may satisfy the quantitative preparation. These courses, however, do not apply toward the 30 hours of graduate course work required for the Master of Arts degree. In addition, students seeking to meet prerequisite requirements with undergraduate courses may need to take a placement exam to demonstrate competence.

Achieve score of 2100 or higher on the formula: 200 times grade point average (computed on a 4.00 scale) plus the product of 1.5 and the combined scores on the quantitative and verbal portions of the Graduate Record Exam. GRE scores for tests taken after August 1, 2011 may be adjusted accordingly to reflect the new GRE format and scoring rubric. Students may substitute the GMAT score for the GRE, in which case the GMAT score will be multiplied by 3 and added to 200 times the grade point average.
6. Department chair or graduate coordinator’s recommendation

7. Submission of two letters of recommendation, a completed Enrollment Request form to the Economics department no less than two weeks before the beginning of the semester for which they would like to register for graduate courses

Students falling short of the requirements for admission with full graduate standing may be admitted as graduate provisional students. Students admitted with graduate provisional status must successfully complete the courses, possibly including any deficiencies, designated by the graduate coordinator, with an average of 3.33 or better within the first year of enrollment to qualify for admission with full graduate standing.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Conventional Track - Thesis
Total Credits Required: 30

Course Requirements
Required Courses – Credits: 18
- ECO 701 - Macroeconomic Theory
- ECO 702 - Microeconomic Theory
- ECO 740 - Mathematical Economics
- ECO 770 - Econometrics I, Statistical Modeling
- ECO 772 - Econometrics II
- ECO 793 - Seminar in Economic Research

Elective Courses – Credits: 6
Students completing the Thesis must complete a minimum of 6 credits of Economics coursework.

Culminating Experience – Credits: 6
- ECO 791 - Thesis

Degree Requirements
1. Completion of a minimum of 30 credit hours, of which, at least 24 credits must be taken in 700-level courses.

2. Degree requirements may exceed (at the option of the student’s advisor), but must not be less than the minimum outlined below. The advisor and/or the coordinator of graduate studies recommend specific course requirements for this degree.

3. An internship is required and will count toward the elective credit requirements. This requirement may be waived by the department upon evidence of appropriate experience. If waived, credits must be earned in other coursework.

4. Students not making satisfactory progress toward the degree are subject to dismissal. Satisfactory progress is defined as in the Graduate College Dismissal Policy. Students will also be placed on probation for earning a grade less than a B. Additional grades less than a B in subsequent terms may result in dismissal from the program. Courses with grades less than a B cannot be applied to the credits required for the degree. Courses with grades less than a B can be retaken with the permission of the student’s advisor and the graduate coordinator.

5. A minimum 3.00 average is required to earn the Master of Arts degree.

6. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Conventional Track - Professional Paper
Total Credits Required: 30

Course Requirements
Required Courses – Credits: 18
- ECO 701 - Macroeconomic Theory
- ECO 702 - Microeconomic Theory
- ECO 740 - Mathematical Economics
- ECO 770 - Econometrics I, Statistical Modeling
- ECO 772 - Econometrics II
- ECO 793 - Seminar in Economic Research

Elective Courses – Credits: 9
Students who complete a Professional Paper must complete 9 credits of Economics coursework; 3 credits may be from a related discipline subject to the approval of the graduate coordinator.

Culminating Experience – Credits: 3
- ECO 794 - Professional Paper

Degree Requirements
1. Completion of a minimum of 30 credit hours, of which, at least 24 credits must be taken in 700-level courses.

2. Degree requirements may exceed (at the option of the student’s advisor), but must not be less than the minimum outlined below. The advisor and/or the coordinator of graduate studies recommend specific course requirements for this degree.
3. An internship is required and will count toward the elective credit requirements. This requirement may be waived by the department upon evidence of appropriate experience. If waived, credits must be earned in other coursework.

4. Students not making satisfactory progress toward the degree are subject to dismissal. Satisfactory progress is defined as in the Graduate College Dismissal Policy. Students will also be placed on probation for earning a grade less than a B. Additional grades less than a B in subsequent terms may result in dismissal from the program. Courses with grades less than a B cannot be applied to the credits required for the degree. Courses with grades less than a B can be retaken with the permission of the student’s advisor and the graduate coordinator.

5. A minimum 3.00 average is required to earn the Master of Arts degree. Students falling below a 3.0 will be placed on probation.

6. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. It should be noted that a student taking four courses a semester could finish all course work in one year by adding an elective course in the fall and in the spring semesters and completing a culminating experience in the summer.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Advanced Track - Thesis

Total Credits Required: 24

Course Requirements

Required Courses – Credits: 9

- ECO 740 - Mathematical Economics
- ECO 772 - Econometrics II
- ECO 793 - Seminar in Economic Research

Economics Course – Credits: 3

Complete one of the following courses:

- ECO 701 - Macroeconomic Theory
- ECO 702 - Microeconomic Theory
- ECO 770 - Econometrics I, Statistical Modeling

Elective Courses – Credits: 6

Students completing the Thesis must complete a minimum of 6 credits of Economics coursework.

Culminating Experience – Credits: 6

- ECO 791 - Thesis

Degree Requirements

1. Completion of a minimum of 24 credit hours, of which, at least 18 credits must be taken in 700-level courses.

2. Degree requirements may exceed (at the option of the student’s advisor), but must not be less than the minimum outlined below. The advisor and/or the coordinator of graduate studies recommend specific course requirements for this degree.

3. An internship is required and will count toward the elective credit requirements. This requirement may be waived by the department upon evidence of appropriate experience. If waived, credits must be earned in other coursework.

4. Students not making satisfactory progress toward the degree are subject to dismissal. Satisfactory progress is defined as in the Graduate College Dismissal Policy. Students will also be placed on probation for earning a grade less than a B. Additional grades less than a B in subsequent terms may result in dismissal from the program. Courses with grades less than a B cannot be applied to the credits required for the degree. Courses with grades less than a B can be retaken with the permission of the student’s advisor and the graduate coordinator.

5. A minimum 3.00 average is required to earn the Master of Arts degree. Students falling below a 3.0 will be placed on probation.

6. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 4 Requirements: Advanced Track - Professional Paper

Total Credits Required: 24

Course Requirements

Required Courses – Credits: 9

- ECO 740 - Mathematical Economics
- ECO 772 - Econometrics II
- ECO 793 - Seminar in Economic Research

Economics Course – Credits: 3

Complete one of the following courses:

- ECO 701 - Macroeconomic Theory
- ECO 770 - Econometrics I, Statistical Modeling

Elective Courses – Credits: 6

Students completing the Thesis must complete a minimum of 6 credits of Economics coursework.

Culminating Experience – Credits: 6

- ECO 791 - Thesis

Degree Requirements

1. Completion of a minimum of 24 credit hours, of which, at least 18 credits must be taken in 700-level courses.

2. Degree requirements may exceed (at the option of the student’s advisor), but must not be less than the minimum outlined below. The advisor and/or the coordinator of graduate studies recommend specific course requirements for this degree.

3. An internship is required and will count toward the elective credit requirements. This requirement may be waived by the department upon evidence of appropriate experience. If waived, credits must be earned in other coursework.

4. Students not making satisfactory progress toward the degree are subject to dismissal. Satisfactory progress is defined as in the Graduate College Dismissal Policy. Students will also be placed on probation for earning a grade less than a B. Additional grades less than a B in subsequent terms may result in dismissal from the program. Courses with grades less than a B cannot be applied to the credits required for the degree. Courses with grades less than a B can be retaken with the permission of the student’s advisor and the graduate coordinator.

5. A minimum 3.00 average is required to earn the Master of Arts degree. Students falling below a 3.0 will be placed on probation.

6. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
- ECO 702 - Microeconomic Theory
- ECO 770 - Econometrics I, Statistical Modeling

Elective Courses – Credits: 9

Students who complete a Professional Paper must complete 9 credits of Economics coursework; 3 credits may be from a related discipline subject to the approval of the graduate coordinator.

Culminating Experience – Credits: 3

- ECO 794 - Professional Paper

Degree Requirements

1. Completion of a minimum of 24 credit hours, of which, at least 18 credits must be taken in 700-level courses.
2. Degree requirements may exceed (at the option of the student’s advisor), but must not be less than the minimum outlined below. The advisor and/or the coordinator of graduate studies recommend specific course requirements for this degree.
3. An internship is required and will count toward the elective credit requirements. This requirement may be waived by the department upon evidence of appropriate experience. If waived, credits must be earned in other coursework.
4. Students not making satisfactory progress toward the degree are subject to dismissal. Satisfactory progress is defined as in the Graduate College Dismissal Policy. Students will also be placed on probation for earning a grade less than a B. Additional grades less than a B in subsequent terms may result in dismissal from the program. Courses with grades less than a B cannot be applied to the credits required for the degree. Courses with grades less than a B can be retaken with the permission of the student’s advisor and the graduate coordinator.
5. A minimum 3.00 average is required to earn the Master of Arts degree. Students falling below a 3.0 will be placed on probation.
6. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
7. It should be noted that a student taking four courses a semester could finish all course work in one year by adding an elective course in the fall and in the spring semesters and completing a culminating experience in the summer.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. To qualify for graduation, each student must successfully complete an empirical research paper or thesis.

Dual Degree: Master of Arts - Economics & Master of Science - Mathematical Sciences

Plan Description

The dual Master of Arts – Economics and Master of Science – Mathematical Sciences combine economic reasoning with mathematical methods. The program attracts students with focused career choices that require core competence in analytical skills and mathematical methods. It also prepares students with interests in pursuing a Ph.D. in economics with substantial quantitative skills, or a Ph.D. in Mathematics with economic applications. We believe that the analytical nature of the program will attract high quality undergraduates.

The MA – Economics portion of the dual degree program advances students’ knowledge in macro- and micro-economic theory. It also provides students with econometrics as well as developing their communication skills. The MS – Mathematical Sciences portion of the dual degree program is designed to equip graduate students with a solid foundation of mathematics, statistics, and real-world applications.

The MS – Mathematical Sciences portion of the dual degree is designed to equip graduate students with a solid foundation of mathematics, statistics, and real-world applications. The MA – Economics portion of the dual degree advances students’ knowledge in macro- and micro-economic theory. It also provides students with econometrics as well as developing their communication skills.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The Departments of Economics and Mathematical Sciences welcome applications from college graduates in all fields. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Applicants must satisfy the minimum admission requirements of the MA – Economics program and the MS – Mathematics program. If denied by one program, the applicant will have the option of proceeding with a single degree program with departmental approval.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
Total Credits Required: 51

Course Requirements

Total Credits Required for the Economics M.A.: 24

Required Courses – Credits: 18
- ECO 701 - Macroeconomic Theory
- ECO 702 - Microeconomic Theory
- ECO 740 - Mathematical Economics
- ECO 770 - Econometrics I, Statistical Modeling
- ECO 772 - Econometrics II
- ECO 793 - Seminar in Economic Research

Elective Courses – Credits: 3
Complete 3 credits of ECO electives at the 600- or 700-level.

Professional Paper – Credits: 3
- ECO 794 - Professional Paper

Total Credits Required for the Mathematical Sciences M.S.: 27

Required Courses – Credits: 18
Complete 18 credits from the following list of courses:
- MAT 771 - Applied Analysis I
- MAT 723 - Advanced Ordinary Differential Equations I
- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 663 - Advanced Matrix Theory and Applications
- MAT 657 - Introduction to Real Analysis I
- STA 761 - Regression Analysis I
- STA 762 - Regression Analysis II
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Elective Courses – Credits: 3
Complete 3 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved graduate-level courses.

Thesis – Credits: 6
Complete six credits in one of the following courses:
- MAT 791 - Thesis
- STA 791 - Thesis

Degree Requirements
1. A minimum of 51 credits of graduate work is required for the Dual M.S. and M.A. Program in Mathematics and Economics.
2. Completion of a minimum of 24 credits for the Economics M.A. and a minimum of 27 credits for the Mathematical Sciences M.S. with a minimum GPA of 3.00.
3. 18 of the 21 credits of economics coursework (excluding professional paper) must be at the 700-level.
4. 15 of the 21 credits of mathematics coursework (excluding thesis) must be at the 700-level.
5. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee. Failure to meet the requirements of probation will result in separation from the graduate program.
6. Classes in which a student receives a C or lower will not count towards his or her degree.
7. Students are required to defend a thesis on subjects in the interdisciplinary area of Mathematics and Economics. The committee chair and two other committee members must be from the Mathematics Department. The thesis committee must be composed at minimum of two graduate faculty members from the Economics Department. Please see Graduate College policy for committee appointment guidelines.
8. Students are required to complete a professional paper. The committee for the professional paper must be composed of a chair and two committee members from the Economics Department and one graduate faculty member from the Mathematics Department.

Plan Graduation Requirements
1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.
2. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
3. The student must successfully complete a professional paper.
4. Submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
5. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
ECO 502 - Intermediate Microeconomics Credits 3
Analysis of the price mechanism, resource allocation, output composition, and income distribution in a market economy. Remedial course to prepare for graduate level microeconomics. Does not count for credit toward the MA in Economics degree. Same as ECON 302

ECO 503 - Intermediate Macroeconomics Credits 3
Analysis of income, output, employment, and price level determination in a market economy. Role of fiscal and monetary policy in promoting stability and growth. Remedial course to prepare for graduate level macroeconomics. Does not count for credit toward the MA in Economics degree. Same as ECON 303

ECO 602 - Topics in Microeconomics Credits 3
Extensions of microeconomic analysis. Application of traditional microeconomic concepts to study economic phenomena. Emphasis on decision making in the public policy arena. Notes: This course is crosslisted with ECON 402. Credit at the 600-level requires additional work.

ECO 640 - Introduction to Mathematical Economics Credits 3
Application of mathematics to economic analysis. This course is crosslisted with ECON 440. Coursework at the 600-level requires additional work. Prerequisites: ECO 502 or ECO 503

ECO 641 - Introduction to Econometrics Credits 3
Measurement of economic relationships, with stress upon the estimation of parameters of stochastic economic models. Notes: Students will be informed upon admission that the instructor will assume a knowledge of college algebra and basic statistics. Grading: Letter grade

ECO 651 - Public Finance Credits 3
Analysis of the financing and provision of public goods. Topics include: the nature of public goods, the choice regarding the level of public good provision, the incidence of taxes, and issues of tax equity. Notes: This course is crosslisted with ECON 451. Credit at the 600-level requires additional work.

ECO 655 - Economics of Industrial Organization Credits 3
Causes and implications of economic concentration and monopoly power. Comparison of alternative approaches to monopoly power in terms of social and economic goals. Notes: This course is crosslisted with ECON 455. Credit at the 600-level requires additional work.

ECO 701 - Macroeconomic Theory Credits 3
Investigates the behavior of the main economic aggregates: output, employment, consumption, savings, investment, interest rates, and price level. Explores and assesses the major theories of the determinants and interrelationships among these variables. Also analyzes the impact of various policies on the macroeconomy. Prerequisites: ECO 740

ECO 702 - Microeconomic Theory Credits 3
Uses quantitative and graphic techniques to analyze household and firm decisions as a basis for market interactions. Topics include the determinants of demand and supply, price and output determination under perfect and imperfect competition, economic efficiency, income distribution, general equilibrium, and economic welfare. Prerequisites: Graduate standing. Corequisite: ECO 740

ECO 707 - Environmental and Natural Resource Economics Credits 3
Relationship between environmental quality and natural resources, using economic analysis. Identifies solutions to economic problems arising from resource scarcity and use. Economic growth, externalities. Prerequisites: Graduate standing.

ECO 709 - Regional Economic Analysis Credits 3
Theoretical and empirical analysis of the regional component of economic activity. Examination of location factors, regional and urban development theory, and regional/urban structure and growth theory. Explores regional analysis and forecasting. Prerequisites: Graduate standing.

ECO 740 - Mathematical Economics Credits 3
Application of mathematics to economic analysis. Prerequisites: Graduate standing or consent of instructor.

ECO 765 - Labor Economics Credits 3
Examination of competing theories of labor market behavior. Topics include theories of labor supply, labor demand, wage determination, unemployment, discrimination and the impact of unions and government institutions on labor market outcomes. Prerequisites: Graduate standing.

ECO 770 - Econometrics I, Statistical Modeling Credits 3
The course reviews fundamentals of mathematical statistics, that are used in econometric analysis. It integrates mathematical models and statistical techniques to perform regression analysis of cross-sectional data with a policy focus. Topics include empirical model building, estimation, and specification and data problems. Notes: Involves extensive use of computer software packages. Prerequisites: Graduate standing and a previous statistics course or consent of instructor.

ECO 772 - Econometrics II Credits 3
Building on econometrics I, this course extends econometric/quantitative skills in the estimation and testing of economic theory. Topics include instrumental variables and two stage least squares estimations, simultaneous equation models, qualitative dependent variable models and sample selection corrections, measurement error issues, introduction to time series and panel data methods. Prerequisites: Graduate standing, ECO 770

ECO 773 - Business and Economic Forecasting Credits 3
Evaluation of the uses and misuses of forecasting techniques in economics, business and governmental decision making. Exploration of techniques of data handling including exponential smoothing, seasonal and cyclical adjustments. Use of simple and multiple regression models and advanced econometric techniques in forecasting. Nature and estimation of autoregressive moving average (ARIMA) models. Prerequisites: Graduate standing and ECO 770.

ECO 780 - Seminar in Economic Theory and Policy Credits 3
Designed for the study of some specialized topic in economic theory or policy. Prerequisites: ECO 702, and ECO 770.

ECO 784 - Internship Credits 3
Internship with business firms, non-profit organizations or government agencies. Project report and internship conference required. Grading: Students will receive S/F for final grade. Prerequisites: ECO 702, ECO 740, ECO 770, ECO 793. Corequisite: ECO 772

ECO 790 - Independent Study Credits 1 – 6
Directed research course under the supervision of a member of the graduate faculty, culminating in a written paper. Prerequisites: Consent of Department Chair or Graduate Coordinator.

ECO 791 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

ECO 793 - Seminar in Economic Research Credits 1 – 3
Provides students with hands-on training in empirical modeling, promotes critical thinking, teaches use of tool kit of research techniques and reinforces the student’s understanding of economic concepts relating to economics research. Prerequisites: Graduate standing in Economics.

ECO 794 - Professional Paper Credits 3
Directed research under the supervision of a member of the graduate faculty, culminating in a professional paper that will be presented to the student’s professional-paper committee. Students will participate in a weekly seminar, presenting results of their research. Students who do not complete a professional paper will receive a temporary grade of “X”. Grading: S/F course grading only. Prerequisites: ECO 701, ECO 702, ECO 740, ECO 772, ECO 793
Finance

The Department of Finance offers a masters in quantitative finance program and a concentration in finance in the MBA program. Students are exposed to both the theory and practical applications related to various areas of finance such as corporate finance and investment management. Students are taught to focus on the key elements of complex financial issues and to provide solutions based on theory, knowledge, analysis and logic. The Master’s of Science - Quantitative Finance program provides students with strong knowledge of finance, advanced statistical and econometric skills to manipulate and analyze large financial datasets, and exposure to the latest technologies with financial applications.

We prepare our students for successful careers related to finance such as corporate finance, investment management, banking and financial services. Finance department faculty members have a diverse range of professional and research interests to enrich the student’s classroom experience. Please refer to individual faculty web links for specific information.

Saeyoung Chang, Ph.D., Department Chair
Daniel Chi, Ph.D., Graduate Coordinator

Finance Faculty
Department Chair
Chang, Saeyoung - Full Graduate Faculty
Graduate Coordinator
Chi, Jianxin (Daniel) - Full Graduate Faculty
Graduate Faculty
Chatfield, Robert - Full Graduate Faculty
Choi, Seungmook - Full Graduate Faculty
Jameson, Melvin - Full Graduate Faculty
Lee, Scott - Full Graduate Faculty
Poon, Percy - Full Graduate Faculty
Puthenpurackal, John - Full Graduate Faculty
Sullivan, Michael - Full Graduate Faculty
Thistle, Paul - Full Graduate Faculty
Zhang, Andrew - Full Graduate Faculty

Plans
Graduate Certificate in Finance (ON HOLD)
Master of Science - Quantitative Finance

Graduate Certificate in Finance (ON HOLD)
Program is on hold and is not currently accepting applications.

Plan Description
The Graduate Certificate in Finance is a graduate certificate program designed to offer students the opportunity to gain a strong knowledge base in the area of Finance. Possible prospective students include those with a non-business undergraduate degree and those with a business degree in an area of business other than Finance. This program essentially allows students to take a short, focused graduate program in the area of Finance. This program is aimed at professionals that currently work in a Finance-related field looking to enhance their Finance knowledge, or for professionals contemplating a career shift to a Finance-related field. Profiles of potential students include: (1) An employee of a financial services company whose educational background is in an area other than Finance and who could benefit from some more formal Finance training; (2) An employee of a financial services company looking for continuing education classes demanded for a professional license or credential; (3) Someone currently employed in an area other than Finance that desires to update their knowledge portfolio for a career change; (4) Someone personally interested in having a better understanding of the many Finance issues that directly affect their lives.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines - Program is on hold and is not currently accepting applications.

Applications available on the UNLV Graduate College website.

Admission requirements include an undergraduate degree with a GPA of 3.00 or higher, and either relevant work experience or a GMAT of 550 or higher. Relevant work experience is a minimum of 3 years experience in a relevant finance-related position. The determination of what is considered relevant work experience will be made by the Department of Finance Certificate Graduate Coordinator.

If desired, upon successful completion of the Graduate Certificate in Finance, students may apply for admittance into the Business Administration M.B.A.. General admission requirements for the UNLV MBA program include: an undergraduate degree with a GPA of 3.00 or higher and a Graduate Management Admission Test (GMAT) score of 550 or higher.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 12
Course Requirements

Required Courses – Credits: 3
Complete the following course or an advisor-approved Finance course.

- MBA 765 - Financial Decision Making

Finance Courses – Credits: 9
Complete three 700-level Finance (FIN) courses.

Certificate Requirements

1. Completion of a minimum of 12 credit hours.
2. A grade point average of at least 3.00 for course work required for the certificate.
3. With appropriate background the student may substitute an elective Finance class for MBA 765. What qualifies as an appropriate background will be determined by the Department of Finance Certificate Graduate Coordinator.
   1. An example of an appropriate background is having an undergraduate degree in Finance.
   2. Equivalent course work for MBA765 - Accounting Management is the completion of ACC 201 - Financial Accounting and ACC 202 - Managerial Accounting (or their equivalents) with a B average or better (B- grades are not acceptable).
   3. MBA 761 - Accounting for Managers and MBA 769 - Applied Economic Analysis are prerequisites for MBA 765 and can be waived with equivalent course work. Equivalent course work for MBA 769 - Applied Economic Analysis is the completion of ECON 261 - Principles of Statistics I and ECON 262 - Principles of Statistics II (or their equivalents) with a B average or better (B- grades are not acceptable).
4. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in separation from the program. A student with two grades of C or lower will be dropped from the program.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Master of Science - Quantitative Finance

Plan Description

The UNLV Lee Business School Master of Science in Quantitative Finance (MSQF) will be a 10-course (30-credit) program that can be finished in 12 months.

The program will provide advanced education and training on core finance knowledge and skills at the graduate level, with special emphasis on quantitative methods in finance and new financial technologies. These quantitative methods include mathematical finance theories as well as statistical and computer-program-based techniques to manage and analyze large financial data sets. Examples of finance theories are those related to capital structure, capital budgeting, valuation, stocks, bonds, derivatives, and portfolio management. Examples of empirical quantitative methods are programming and modeling skills using SAS, Stata, Excel, Python etc. to manage and analyze large databases of financial and investment information.

Students will be able to choose from a menu of electives to prepare themselves for careers in corporate finance, investment management, and the application of technology to financial applications.

The purpose of the program is to prepare successful finance professionals who are capable of utilizing the latest technologies to perform sophisticated financial analysis and management.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degrees Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students must:

1. Meet the general requirements for admission to graduate instruction at the University of Nevada, Las Vegas, as described by the Graduate College.
2. Complete the prerequisite (or equivalent) courses listed below with at least a B grade.
   1. Principles of Finance (FIN 301/MBA 765)
   2. Financial Accounting (ACC 201/MBA 761)
   3. Microeconomics (ECON 102/ECON 302/ MBA 769)
   4. Two statistics courses (ECON 261 and ECON 262 or ECON 441)
   5. Two calculus courses (MATH 181 and MATH 182) or one calculus and one linear algebra course (MATH 181 and MATH 330). ECON 440/640 is an alternate way to satisfy the calculus prerequisite. Students who have not met the prerequisite requirements may be granted conditional admission at the discretion of the department.
3. Conform to regulations outlined by the Graduate College of UNLV regarding the TOEFL or other equivalent certifications of English fluency.

4. Satisfactory GMAT or GRE scores. Preference is given to applicants with GMAT scores above 550 (or the GRE equivalent).

Complete the Graduate College application online and submit a nonrefundable admission application fee. Mail official transcripts to the Graduate College.

For information on Conditional Admission, please refer to the Admission & Registration section of the Graduate Catalog.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 30

Course Requirements

Core Courses – Credits: 18

- ECO 770 - Econometrics I, Statistical Modeling
- FIN 708 - Advance Corporate Finance
- FIN 710 - Investment Management
- FINQ 761 - Corporate Finance Modeling
- FINQ 762 - Investments Modeling
- FINQ 773 - Capstone Project

Elective Courses - Credits: 12

- ECO 772 - Econometrics II
- FINQ 721 - CFA Level I Prep
- FINQ 766 - Fintech (Financial Technology)
- FINQ 781 - Finance Internship
- FINQ 790 - Finance Independent Study
- FINQ 754 - Financial Statement Analysis and Valuation
- FINQ 757 - Special Topics in Corporate Finance
- FINQ 763 - Quantitative Investment Strategies
- FINQ 764 - Derivatives and Risk Management
- FINQ 765 - Fixed Income Securities

At Most One Elective from the Following Existing MBA Courses:

- FIN 709 - Applied topics in Finance
- FIN 712 - Financial Markets and Institutions
- FIN 740 - Risk Management
- FIN 750 - International Financial Management

Degree Requirements

1. The capstone project will be a group project of 4-5 students working on a company project or research project identified by faculty or the students.

2. All proposed capstone projects will require approval from the program director to ensure that the learning objectives will be met. Groups will meet with the program director on a regular basis to report on the progress of the project and obtain timely feedback.

3. An oral presentation and written report of the project are required.

4. Individual grades will be determined primarily by the group grade. However, group peer evaluations will be conducted to assess individual contributions. In the event of a student not passing the course due to unsatisfactory contribution towards the group work, to satisfy the culminating experience, the student will work on an individual project supervised by the program director.

5. For assessment purposes, a panel of 3-4 Finance faculty members will evaluate the written report and oral presentation of each project using the rubric provided in the assessment plan.

Plan Graduation Requirements

1. A minimum of 30 credit hours of program course work (excluding prerequisites) is required with an overall GPA of at least 3.00 for the course work that is part of the M.S. Quantitative Finance program.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

FIN 708 - Advance Corporate Finance Credits 3

Studies major decision-making areas of managerial finance and some selected topics in financial theory. Emphasis on the application of the theory and practice of business asset management, financing choice, capital structure, cost of capital, and dividend policy. Current topics, such as corporate acquisitions, restructuring, and underwriting covered as appropriate. Prerequisites: MBA 765 or approval of the Director of MBA Programs.

FIN 709 - Applied topics in Finance Credits 3

This course focuses on the application of theory in finance through some combination of case analysis, the use of spreadsheets to assist in financial analysis and simulations. Topics covered may include capital budgeting, cost of capital, capital structure, risk analysis, financial statement analysis, options, and mergers and acquisitions. Prerequisites: MBA 765

FIN 710 - Investment Management Credits 3

Theoretical and practical analyses of investment environment and process. Focuses on characteristics, valuation, and management of various financial instruments, such as common stock, corporate bonds, options, and futures. Students learn how to establish appropriate investment objectives, develop optimal portfolio strategies, estimate risk-return trade-offs, and evaluate investment performance. Prerequisites: MBA 765 or approval of the Director of MBA Programs.

FIN 712 - Financial Markets and Institutions Credits 3

Comparative study of the diverse financial instruments and intermediaries existing in today's financial sector. Topics include: the structure of interest rates, relative costs and benefits of each instrument, financial innovation and financial "engineering," the role of banks, thrifts and other intermediaries, and current and future trends in the financial sector. Prerequisites: MBA 765 and MBA 769 or approval of the Director of MBA Programs.
FIN 715 - Portfolio Management  Credits 3
Strategies investors employ to meet alternative investment objectives. Asset allocation decisions and the management of risk and return emphasized using various quantitative approaches to determine portfolio optimization and asset market equilibrium. Full spectrum of portfolio management issues considered across all classes securities, including equity, fixed-income, and derivative securities. Prerequisites: MBA 765 and FIN 710, or approval of the Director of MBA Programs.

FIN 740 - Risk Management  Credits 3
Applies risk management process as an integrated approach to financial, credit and insurable risks. Financial perspective on the corporate risk management function emphasized, using the financial tools of risk. Prerequisites: MBA 765 or approval of the Director of MBA Programs.

FIN 750 - International Financial Management  Credits 3
Covers a broad range of issues related to international financial markets and conducting business in an international environment. Topics include international parity relationships, international capital budgeting, hedging risks associated with exposure to exchange rate fluctuations using forwards and options, and interest rate and foreign currency swaps.

FINQ 754 - Financial Statement Analysis and Valuation  Credits 3
Develops a strong understanding of how to interpret financial statements using real company data. Study of major items on the assets and liabilities side of the balance sheet and how different accounting methods impact other financial statements as well as topics on valuation of stocks and businesses. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 708 and FIN 710.

FINQ 757 - Special Topics in Corporate Finance  Credits 3
Focuses on selected topics in corporate finance including mergers & acquisitions, other corporate restructuring, corporate governance, and executive compensation. Classical studies and recent developments are reviewed. Exposure to both theory and empirical research that can help develop capstone projects. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 708 and ECO 770.

FINQ 761 - Corporate Finance Modeling  Credits 3
Discusses how to use statistical software to retrieve, organize, and analyze large financial databases to facilitate corporate financial decision making. Examples of software and databases used include Excel, SAS, Stata, Compustat, ExecuComp, and FactSet. A wide range of advanced statistical and econometric methods will be examined. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program.

FINQ 762 - Investments Modeling  Credits 3
Discussion of econometric techniques and programming skills needed to manipulate large financial data sets. Widely used statistical factor models are developed to form tradable portfolios using various characteristics. Topics include asset pricing, market efficiency, and statistical estimation. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 710 and ECO 770.

FINQ 763 - Quantitative Investment Strategies  Credits 3
Describes quantitative investment strategies used by active traders and focuses on the use of real data to evaluate them. Analysis of academic research articles in search of profitable and implementable trading ideas. Discusses issues such as performance measurement, liquidity risk, and portfolio construction. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 710 and ECO 770.

FINQ 764 - Derivatives and Risk Management  Credits 3
Pricing of derivative securities and their applications in financial risk management. Derivatives markets, pricing of futures and forwards, binomial model for pricing options, introduction to stochastic calculus, Ito’s lemma, no-arbitrage pricing of options and Black-Scholes model, option greeks, pricing swaps, and managing market, credit and liquidity risk. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 708 and FIN 710.

FINQ 765 - Fixed Income Securities  Credits 3
Discusses unique features and concepts related to the valuation and risk-return analysis of fixed income securities and structured notes. Topics include fixed and floating rate loans with embedded options, interest rate derivatives, credit default swaps, and mortgage-backed securities. Techniques for factor-based fixed income portfolio construction are also discussed. Grading: Letter grade Prerequisites: Admission in MSQF program or approval by Director of MSQF program; FIN 710 and ECO 770.

FINQ 773 - Capstone Project  Credits 3
Application of knowledge obtained from the MSQF coursework to a project involving significant data analysis using large financial datasets. Grading: Letter grade Prerequisites: Approval by Director of MSQF program.

FINQ 781 - Finance Internship  Credits 3
Can be with corporations, non-profit organizations or government agencies. The internship should be at least 150 hours long. Grading: S/F grading Prerequisites: Approval by Director of MSQF program.

FINQ 784 - Finance Internship  Credits 3
Apply skills in finance related work setting with significant analytical content. Can be with corporations, non-profit organizations or government agencies. The internship should be at least 150 hours long. Grading: S/F grading Prerequisites: Approval by Director of MSQF program.
Management Entrepreneurship and Technology

The mission of the Department of Management, Entrepreneurship and Technology is to create and disseminate knowledge that can be used by our students, scholars in our disciplines, and practitioners in all types of organizations to enrich people’s lives and to benefit our community, state, and nation. Our faculty is dedicated to providing undergraduate and graduate students with a high quality and rigorous education and to publishing innovative and cutting edge research in leading peer-reviewed journals.

Technology Program

This program prepares graduates for professional and managerial careers in IT or for doctoral studies leading to research and teaching careers in IS. This objective is achieved through a balanced emphasis on theory and practice. The program prepares graduates with a broad-based knowledge of information systems design, development, implementation, evaluation, and maintenance. The graduates will understand IT’s dynamic nature and will be able to use and manage IT for problem solving, decision-making, competitive advantage, and innovation. Courses in the program include projects that allow students to organize team activities, analyze problems and propose solutions, explain project-related decisions, document and communicate progress, collect and analyze data, and present solutions. Students develop written and spoken communication skills. Students in this program have the option to write an M.S. thesis, a substantial original work that contributes to the body of knowledge in IS and business.

Students work closely with research faculty members on the thesis with the objective of producing publishable quality research outcomes. The thesis prepares students for professional careers by giving them unique skills or knowledge with professional value. It prepares research oriented students with research skills that will be invaluable in pursuing the Ph.D. Students in the program take pride in using the thesis to learn something truly unique.

This degree program will prepare the graduate with:

- A deep understanding of systems thinking and ways that IT can be used to enhance the effectiveness of the individual and organizations.
- The ability to analyze business problems, to develop system solutions, and apply information technology to obtain business solutions.
- A comprehensive understanding of the theoretical basis of management information systems and current research questions.
- The ability to learn on a continuing basis to stay current with rapidly changing technologies.
- The ability to effectively communicate the technology and its application to business executives and users of information systems.
- The knowledge and skills to function as an information technology professional in public or private organization.
- Excellent preparation to enter a doctoral program in MIS.

Rajiv Kishore, Ph.D., Chair
Gregory D. Moody, Ph.D., Graduate Coordinator
Yong Li, Ph.D., Graduate Coordinator

Management, Entrepreneurship and Technology Faculty

Chair
Alder, G. Stoney Full Professor, B.S., University of Utah; MBA, Brigham Young University; Ph.D. University of Colorado. Rebel since 2002.

Graduate Coordinator
Moody, Gregory Associate Professor; Ph.D., University of Oulu, Ph.D. University of Pittsburgh. Rebel since 2011.

Graduate Faculty
Alder, G. Stoney Professor, B.S., University of Utah; MBA, Brigham Young University; Ph.D. University of Colorado. Rebel since 2002.

Chang, Jerry Professor, Ph.D., University of Pittsburgh. Rebel since 2000.

Chatterjee, Suritha Associate Professor; Ph.D. Washington State University. Rebel since 2012.

Deng, Honghui Associate Professor; Ph.D. University of Texas at Austin. Rebel since 2003.

Hardin, Andrew Associate Dean for Research and Innovation and Professor, Ph.D. Washington State University. Rebel since 2007.

Hu, Han-fen Assistant Professor; Ph.D. University of Utah. Rebel since 2012.

McAllister, Daniel W. Associate Professor; B.S.B.A., M.B.A., University of Utah; Ph.D., University of Washington. Rebel since 1982.

Miller, Alan N. Professor; B.A., University of New Hampshire; B.A., Temple University; MBA, Syracuse University; M.Phil., Ph.D., City University of New York. Rebel since 1978.

Moody, Gregory Associate Professor; Ph.D., University of Oulu, Ph.D. University of Pittsburgh. Rebel since 2011.

Peffers, Ken Professor; Ph.D., Purdue University. Rebel since 2003.

Randolph, Robert Assistant Professor; Ph.D., Mississippi State University. Rebel since 2014.

Rawhouser, Hans Assistant Professor; B.S.E., University of Nevada, Las Vegas; M.B.A., Thunderbird School of Global Management; Ph.D., University of Minnesota. Rebel since 2012.

Rothenberger, Marcus Professor; Ph.D. Arizona State University. Rebel since 2004.

Seale, Darryl Anthony Professor; B.S., California State University, Chico; MBA, Pennsylvania State University; M.A., Ph.D., University of Arizona. Rebel since 1999.

Torkzadeh, Reza Professor, Ph.D., University of Lancaster, UK. Rebel since 1999.

Wang, Sheng Associate Professor; Ph.D., Ohio State University Main Campus; MLHR, Ohio State University Main Campus. Rebel since 2005.

Professors Emeriti

Erickson, Ranel Professor; B.A., University of Utah; MBA, Pennsylvania State University; Ph.D., University of Pittsburgh. Rebel since 2003.

Gilbert, Joseph T. Associate Professor; B.A., M.A., St. Louis University; Ph.D., University of Southern California. Rebel since 1991.

Hames, David S. Associate Professor; B.A., Albion College; M.A., Michigan State University; Ph.D., University of North Carolina, Chapel Hill. Rebel since 1989.

Hong, Weiyin Emeritus Associate Professor, Ph.D., Hong Kong University of Sciences. UNLV Emeritus 2001.
Graduate Certificate in Data Analytics

Plan Description
Students that complete this certificate will be trained in basic statistical training and software tools that will focus on the collection, storage, retrieval and analysis of data. This certificate is meant to help those that are involved with data analysis, but lack the skills or understanding to conduct the analysis.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students must:
1. Meet the general requirements for admission to graduate instruction at the University of Nevada, Las Vegas, as described by the Graduate College, unless already a graduate student at UNLV.
3. Must be employed in a position that treats with data.
4. Meet admissions requirements of the Graduate College of UNLV regarding the TOEFL or other equivalent certifications of English fluency.
5. Complete Graduate College application online and submit a nonrefundable admission application fee.

Mail official transcripts to the Graduate College. Send a letter of interest, explaining why you wish to enroll in the certificate.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 12

Course Requirements
Required Courses – Credits: 12
• DA 701 - Data Research Methods and Tools
• DA 702 - Applied Big Data
• DA 703 - Applied Data Management
• DA 704 - Applied Business Intelligence

Certificate Requirements
All four courses in the certificate must be completed with an overall GPA at or above 3.0. Any grade below a C is not acceptable towards completion.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Management (ON HOLD)
Program is on hold and is not currently accepting applications.

Plan Description
The Graduate Certificate in Management (GCM) will be comprised of graduate classes currently offered through the MBA curriculum. The Graduate Certificate is designed for those students wishing to gain knowledge or update their knowledge in the specific area of Management. The Graduate Certificate is not a degree program and completion of this program indicates an expertise in a narrower specialty, not general expertise in all areas of business. Moreover, while a concentration in New Venture Management exists in the MBA, a concentration in General Management does not.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines - Program is on hold and is not currently accepting applications.
Applications available on the UNLV Graduate College website.
Admission requirements include an undergraduate degree with a GPA of 3.00 or higher, and either relevant work experience or a GMAT of 550 or higher. Relevant work experience is a minimum of 3 years’ experience in a relevant management-related position. The determination of what is considered relevant work experience will be made by the Coordinator of Non Degree Programs for the College of Business.

If desired, upon successful completion of the Graduate Certificate in Management, students may apply for admittance into the UNLV MBA. General admission requirements for the UNLV Evening MBA Program include: an undergraduate degree with a GPA of 3.00 or higher and a Graduate Management Admission Test (GMAT) score of 550 or higher.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
Total Credits Required: 15

Course Requirements
Required Courses – Credits: 15
• MBA 763 - Leadership, Teams, and Individuals
• MBA 771 - Law and Ethics
• MGT 709 - New Venture Feasibility
• MGT 711 - Seminar in Negotiation
• MGT 712 - Change Management

Certificate Requirements
1. Completion of a minimum of 15 credit hours.
2. A grade point average of at least 3.00 for course work required for the certificate.
3. No grade lower than C is acceptable.
4. There are no pre-requisites for MBA 771 and MBA 763, however, the remaining three courses require the completion of the MBA Core or admission to the Graduate Certificate in Management as a pre-requisite.
5. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Management Information Systems
This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description
The Graduate Certificate in Management Information Systems (MIS) is a graduate certificate program designed for individuals who want to acquire specific MIS skills to meet the needs or demands of their workplace. The certificate program is suitable for students with no prior MIS background, as well as for those who have prior MIS knowledge or education and want to acquire specific additional skills (retooling). Students can select from three suggested subplans, or they can, upon approval of the MIS Graduate Coordinator, customize the certificate program to meet their specific retooling needs.

The Graduate Certificate in Management Information Systems requires the completion of four MIS graduate courses. These are courses that are already offered as part of the Master of Science in MIS (MS MIS) program. While the MS MIS program requires the completion of 36 credits, the Certificate in MIS requires the completion of 12 credits, a subset of the MS MIS program requirements.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

The Department of Management, Entrepreneurship, and Technology welcomes applications from college graduates in all fields. The student must satisfy the minimum admission requirements of the Graduate College and the Certificate in MIS. The candidate must meet the following requirements:

1. Submission of a completed application and required application fee;
2. Statement of purpose that describes why you want to join the program and your professional goals, relevant to this program;
3. Updated resume, which includes academic, professional and other relevant experience;
4. Submission of official transcripts from all post-secondary institutions;
5. Evidence of having been awarded the equivalent of a U.S. bachelor’s degree from an accredited college or university with an overall undergraduate grade point average of at least 3.00 on the four-point scale;
6. Official GMAT or GRE score. Graduate Management Admission Test (GMAT) with target score of 550. Applicants with satisfactory scores on the general aptitude portion (50th percentile or higher) of the Graduate Record Examination (GRE) will be considered for admission. Test scores over five years old are not accepted.
If a student is already admitted to the MS MIS program and wants to switch to the Certificate in MIS program, then the student must apply for admission to the certificate program. The student can transfer up to 12 credits of MIS courses into the certificate program after being admitted. Alternatively, if a student in the Certificate in MIS program wants to switch to the MS MIS program, then the student must apply for admission to the MS MIS program. The student can transfer up to 15 credits of MIS courses into the MS MIS program after being admitted. The student can transfer these credits into the MS MIS program even if they were already applied towards the certificate.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Business Analysis and Development for Systems
Total Credits Required: 12

Course Requirements
Required Courses – Credits: 12
- MIS 744 - Information Systems Strategy
- MIS 746 - Information Systems Project Management
- MIS 762 - Systems Analysis, Modeling and Design
- MIS 766 - Data Management

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 2 Requirements: System Development Technologies
Total Credits Required: 12

Course Requirements
Required Courses – Credits: 12
- MIS 760* - Data Communications and Systems
- MIS 762 - Systems Analysis, Modeling and Design
- MIS 764 - Electronic Commerce
- MIS 775 - Cloud Computing

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 3 Requirements: Business Intelligence
Total Credits Required: 12

Course Requirements
Required Courses – Credits: 12
- MIS 760* - Data Communications and Systems
- MIS 764 - Electronic Commerce
- MIS 766 - Data Management
- MIS 776 - Business Intelligence

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 4 Requirements: Individual Plan
Total Credits Required: 12

Course Requirements
Required Courses – Credits: 12
Complete four courses authorized by your Graduate Coordinator. These courses must be listed on the Degree Audit Companion Form.

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Plan Certificate Requirements
1. Completion of a minimum of 12 credit hours of MIS courses.
2. Changes to the courses of study require prior approval of the MIS Graduate Coordinator.
3. A grade point average of at least 3.00 for course work required for the certificate.
4. No grade lower than C is acceptable.
5. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in New Venture Management

This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Graduate Certificate in New Venture Management (GCNV) is comprised of graduate classes currently offered through the Business Administration M.B.A. curriculum. The Graduate Certificate is designed for those students wishing to gain knowledge or update their knowledge in the specific area of New Venture Management. The Graduate Certificate is not a degree program and completion of this program indicates an expertise in a narrow specialty, not general expertise in all areas of business.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission requirements include an undergraduate degree with a GPA of 3.00 or higher, and either relevant work experience or a GMAT of 550 or higher. Relevant work experience is a minimum of 3 years experience in a relevant business-related position. The determination of what is considered relevant work experience will be made by the Coordinator of Non Degree Programs in the College of Business.

If desired, upon successful completion of the Graduate Certificate in New Venture Management, students may apply for admittance into the Business Administration M.B.A.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 15

Course Requirements

Required Courses – Credits: 9

• MGT 709 - New Venture Feasibility
• MGT 710* - New Venture Creation
• MBA 767 - Market Opportunity Analysis

Elective Courses – Credits: 6

Complete 6 credits of advisor-approved coursework.

Certificate Requirements

1. Completion of a minimum of 15 credit hours.
2. A grade point average of at least 3.00 for course work required for the certificate.
3. No grade lower than C is acceptable.
4. There are no pre-requisites for MBA 767; however, the remaining courses require the completion of the MBA Core or admission to the Graduate Certificate in New Venture Management as a pre-requisite.
5. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Dual Degree: Master of Business Administration & Master of Science - Management Information Systems

Plan Description

The dual MBA and MS – MIS program of study is designed for those who seek career and business leadership opportunities in management information systems. The program will provide students with the needed skills, knowledge, and tools to become visionary and creative business leaders with strong competency in management information systems. The core MBA program is designed to advance the knowledge and practice of business and administration. The MS – MIS portion of the dual degree is designed to prepare graduates with a broad-based knowledge of information system design, development, implementation, evaluation, and maintenance.

The program includes 54-credits and the student will receive both, an MBA and an MS MIS degree. Each student completes a total of 24 credit hours in MIS courses and a total of 30 credit hours in MBA core courses with a minimum GPA of 3.0. MBA courses are accepted as hours of elective towards the MS MIS degree. The program does not require a thesis.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The admission requirements for the dual degree program are the same as each of the MBA and M.S. – Management Information Systems programs. Applicants must be admitted to each of the MBA and M.S. – Management Information Systems programs. Candidates have to apply to the MBA/MS – MIS Dual Degree program and meet the respective application requirements of each of the programs respectively.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 54

Course Requirements

Total Credits Required for the Business Administration M.B.A.: 30

MBA Core Required Courses – Credits: 18

- MBA 761 - Accounting for Managers
- MBA 763 - Leadership, Teams, and Individuals
- MBA 765 - Financial Decision Making
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 775 - Data Modeling and Analysis

Electives – Credits: 9

Complete 9 credits of electives from any 700-level course offered by the Lee Business School.

Capstone Course – Credits: 3

- MBA 787 - Strategic Management

Total Credits Required for the Management Information Systems M.S.: 24

Required Courses – Credits: 18

- MIS 744 - Information Systems Strategy
- MIS 746 - Information Systems Project Management
- MIS 762 - Systems Analysis, Modeling and Design
- MIS 764 - Electronic Commerce
- MIS 766 - Data Management
- MIS 781 - Client Project

Electives – Credits: 6

Complete 6 credits of electives from any 600/700-level course offered by the Lee Business School.

With approval of the MS – MIS program graduate coordinator, required MIS courses may be substituted with elective courses to avoid duplication of a student’s previous course work and to address the needs of the student’s specific career choice.

Degree Requirements

1. Completion of a minimum of 30 credit hours of MBA core courses and a minimum of 24 credits of MS – MIS courses.
2. A grade point average of at least 3.00 for course work required for the degree.
3. No grade lower than C is acceptable.
4. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.
5. The MIS 781 course is the culminating course for the MS MIS portion of this dual degree. This course should be taken during the last year of the student’s enrollment in this program.

Plan Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.
2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
3. Successful completion of the capstone course.

Master of Science - Data Analytics and Applied Economics

Plan Description

The MS in Data Analytics and Applied Economics combines skills in programming, data gathering, and data management with skills in economic reasoning and statistical analysis skills. The program attracts students with focused career choices that require core competence in programming and constructing data systems with analytical and statistical skills. It also prepares students preparing for a career as data scientists.

The economics portion of the degree advances students’ knowledge in economic theory. It also provides students with skills associated with advanced statistical and econometric analysis, and helps students develop their communication skills.

The technical portion of the degree is designed to equip graduate students with a solid foundation in programming, building data management systems, and data mining.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students must:

1. Meet the general requirements for admission to graduate instruction at the University of Nevada, Las Vegas, as described by the Graduate College.
2. Complete the prerequisite preparation in intermediate microeconomic theory (ECON-502 or equivalent), statistical analysis (ECON-262 or ECON 441 or equivalent), plus at least one semester of calculus.
3. Conform to regulations outlined by the Graduate College of UNLV regarding the TOEFL or other equivalent certifications of English fluency.

4. Statement of purpose that describes why you want to join the program and your professional goals, relevant to this program.
5. Updated resume, which includes academic, professional and other relevant experience.
6. Obtain a minimum of 550 on the GMAT or equivalent on the GRE.
7. If they are international, submit a completed Certificate of Finance to the Office of International Students & Scholars. In addition, international applicants must satisfy the financial eligibility requirements before an I-20 will be issued.
8. Complete Graduate College application online and submit a nonrefundable admission application fee. Mail official transcripts to the Graduate College. Send two letters of recommendation, letter of intent as well as official test scores, GRE or GMAT to the Graduate College.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits: 36

Course Requirements

Core Courses from Management Information Systems – Credits: 15

- MIS 671 - Big Data
- MIS 740 - Software Concepts
- MIS 766 - Data Management
- MIS 768 - Java Programming
- MIS 776 - Business Intelligence

Core Courses from Economics – Credits: 12

- ECO 702 - Microeconomic Theory
- ECO 770 - Econometrics I, Statistical Modeling
- ECO 772 - Econometrics II
  And
- ECO 773 - Business and Economic Forecasting
  OR
- ECO 740 - Mathematical Economics

Elective Courses – Credits: 6

Complete 6 credits of 600 / 700 level courses in Economics or Management of Information Systems, or other course upon approval of both Graduates Coordinators in the Economics and Management of Information Systems programs, which serve as co-chairs for this program.
Culminating Experience Course – Credits: 3
Complete 3 credits from the following list of courses:
- MIS 781 - Client Project
- ECO 794 - Professional Paper

Degree Requirements
1. A minimum of 36 credits of course work is required from the degree with a GPA of at least 3.00 is required for the graduate course work that is part of the degree program.

Plan Graduation Requirements
1. Culminating experience (ECO 794 or MIS 781) must be taken during the student’s last year in the program.
2. A minimum of 36 credits of course work is required from the degree with a GPA of at least 3.00 is required for the graduate course work that is part of the degree program.
3. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Master of Science - Management Information Systems
This program is accredited by: AACSB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description
The Master of Science – Management Information Systems (MS MIS) program prepares graduates for professional careers in the management of information technology (IT). The MS MIS focuses on the application of technology to help achieve organizational goals and solve business problems. MIS students earn competency in IT, embedded in a business context that provides them with well-rounded preparation for occupations in high demand. Recent graduates are pursuing careers in a variety of roles, such as project manager, IT manager, business analyst, database analyst, network engineer, and systems consultant.

Each student completes a total of 36 credit hours in MIS courses with a minimum GPA of 3.0. The student can elect to either take 30 credit hours of coursework and complete a master-level thesis for 6 credit hours, or to complete 36 credit hours of course work. The student’s program will be selected in consultation with and approved by the student’s advisor and the department chair and may include up to two courses (four courses if the non-thesis option is selected) from supporting areas other than MIS, such as accounting, law, computer science, economics, social sciences, and management.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
1. Submission of a completed application and required application fee;
2. Submission of official transcripts from all post-secondary institutions;
3. Evidence of having been awarded the equivalent of a U.S. Bachelor of Arts or Bachelor of Science degree from an accredited college or university with an overall undergraduate grade point average of at least 3.00 on the four-point scale;
4. For MIS applicants who previously attended a post-secondary institution outside of the U.S., the requirement that transcripts be evaluated by an outside agency is waived.
5. Official GMAT or GRE score. Graduate Management Admission Test (GMAT) with a target score of 550. Applicants with satisfactory scores on the general aptitude portion (50th percentile or higher) of the Graduate Record Examination (GRE) will be considered for admission. Test scores over five years old are not accepted. The GMAT test score should be reflective of verbal and quantitative aptitude. GMAT or GRE scores over five years old are not accepted.
6. Two letters of recommendation submitted in sealed envelopes or uploaded through the Grad Rebel Gateway application system.
7. Statement of purpose that describes why you want to join the program and your professional goals, relevant to this program. Updated resume, which includes academic, professional and other relevant experience.

Individuals with deficiencies in their undergraduate background may be required to enroll in selected additional undergraduate courses to satisfy the M.S. degree requirements. A maximum of 12 credit hours may be transferred into the program if taken recently from an AACSB accredited school. The department chair and the associate dean must approve any earned credits for transfer.

Individuals with degrees in disciplines other than business may be required to take leveling business courses, as prescribed by the director.

The application forms, fees, letters of recommendation, official transcripts, test results, and assistantship applications must be submitted to the Graduate College as outlined in this catalog.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 24
Complete one of the following two courses:
• MIS 740 - Software Concepts
OR
• MIS 768 - Java Programming
AND
• MIS 764 - Electronic Commerce
• MIS 766 - Data Management
• MIS 773 - Research Seminar in Information Systems
• MIS 744 - Information Systems Strategy
• MIS 746 - Information Systems Project Management
• MIS 760* - Data Communications and Systems
• MIS 762 - Systems Analysis, Modeling and Design

Elective Courses – Credits: 6
Complete 6 credits of electives from any 600/700-level course offered by the Lee Business School.

Thesis – Credits: 6
• MIS 780* - Thesis
  ** If a student has completed any of the required or elective MIS graduate courses as part of a previous degree at UNLV with grades of B or better, the course(s) may be waived and the number of credits required for the MS MIS program will be reduced by an equal number of credits, up to a maximum of 12 credits.

If the student has not sufficient relevant work experience, up to 6 credits of MIS 755 Internship may be required in addition to the above degree requirements. The determination is made by the MIS Graduate Coordinator in consultation with the student at the time of filing the Proposed Master’s Degree Program, which shall occur before the student completes 16 credits towards the degree.

Degree Requirements
1. Completion of a minimum of 36 credit hours of MIS courses.
2. A grade point average of at least 3.00 for course work required for the degree.
3. No grade lower than C is acceptable.
4. Each student’s program of course work must be selected in consultation with and approved by the student’s advisor and the department chair, and may include up to 6 credit hours from selected disciplines other than MIS, such as cognitive psychology, computer science, accounting, or economics.

5. Students on the thesis track are expected to select a research advisor by the end of their first year, to attend all departmental seminars, and to present a research seminar prior to graduation.
6. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
7. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.
8. Students are required to register for six hours of thesis. They are advised to split these six hours of thesis and register for three hours each during the last two semesters.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 24
Complete one of the following two courses:
• MIS 740 - Software Concepts
OR
• MIS 768 - Java Programming
AND
Elective Courses – Credits: 12

Complete 12 credits of electives from any 600/700-level course offered by the Lee Business School.

* * If a student has completed any of the required or elective MIS graduate courses as part of a previous degree at UNLV with grades of B or better, the course(s) may be waived and the number of credits required for the MS MIS program will be reduced by an equal number of credits, up to a maximum of 12 credits.

If the student has not sufficient relevant work experience, up to 6 credits of MIS 755 Internship may be required in addition to the above degree requirements. The determination is made by the MIS Graduate Coordinator in consultation with the student at the time of filing the Proposed Master’s Degree Program, which shall occur before the student completes 16 credits towards the degree.

Degree Requirements

1. Completion of a minimum of 36 credit hours of MIS courses.
2. A grade point average of at least 3.00 for course work required for the degree.
3. No grade lower than C is acceptable.
4. Each student’s program of course work must be selected in consultation with and approved by the student’s advisor and the department chair, and may include up to 6 credit hours from selected disciplines other than MIS, such as cognitive psychology, computer science, accounting, or economics.
5. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.
6. MIS 781 should be taken during the last year of the student’s enrollment in this program.

Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Dual Degree: Master of Science - Hotel Administration & Master of Science - Management Information Systems

Plan Description

The William F. Harrah College of Hotel Administration and the Lee School of Business MIS department, offer a Master of Science – Hotel Administration and Master of Science – Management Information Systems (MS HOA / MS MIS) dual degree program. It is designed for students who seek careers and leadership opportunities in the hospitality industry with a focus on information technology and management information systems. The program provides students with the skills, knowledge, and tools needed to become visionary and creative leaders in information technology in the hospitality industry.

The program includes 48-credits and the student will receive both, an MS HOA and an MS MIS degree. The MS MIS degree (24 credits) helps students develop critical skills in information technology systems analysis and design. The MS HOA degree (24 credits) helps students acquire knowledge specific to the management of hospitality operations. HOA courses are accepted as hours of elective towards the MS MIS degree and MIS courses are accepted as hours of elective towards the HOA degree. This program will take at least three years (six semesters) to complete. The completion of a professional paper is included in the credit total.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. The admission requirements for the dual degree are the same as those stated under the MS MIS and MS HOA programs. Dual MS MIS applicants may take the GRE or the GMAT. All dual degree program applicants are required to show that they have at least one year of full-time management/supervisory experience or three years of cumulative full-time front-line experience in the hospitality industry.

See the Application Process section under the MS MIS and the MS HOA programs. Applications will be reviewed by representatives of the William F. Harrah College of Hotel Administration and the Lee Business School in an independent process within each college. Applicants must be admitted to both schools to qualify for the dual degree program for that term. If denied by one program, the applicant will have the option of proceeding with a single degree program with departmental approval.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

Total Credits Required: 48

Course Requirements

Total Credits Required for the Hotel Administration M.S.: 24

Required Courses – Credits: 15

- HOA 711 - Laws of Innkeeping and Food Service
- HOA 725 - Information Technology in the Hospitality Industry
- HOA 731 - Operational Analysis in Hospitality Management
- HOA 735 - Research Methodology
- HOA 751 - Hospitality Service Management

Management Elective Course – Credits: 3

Complete one of the following courses:

- HOA 716 - Principles and Practices in Hotel Management
- HOA 717 - Principles and Practices in Convention and Meetings Management
- HOA 718 - Principles of Casino and Gaming Management
- HOA 720 - Principles and Practices in Food Service Management

Seminar Course – Credits: 3

Complete one of the following courses:

- HOA 760 - Research Seminar in Hotel Administration
- HOA 761 - Research Seminar in Food Service Administration
- HOA 763 - Research Seminar In Casino and Gaming Management
- HOA 777 - Critical Issues in Hospitality Management

Professional Paper – Credits: 3

- HOA 788R - Professional Paper

Total Credits Required for the Management Information Systems M.S.: 24

Required Courses – Credits: 18

- MIS 744 - Information Systems Strategy
- MIS 746 - Information Systems Project Management
- MIS 762 - Systems Analysis, Modeling and Design
- MIS 764 - Electronic Commerce
- MIS 766 - Data Management
- MIS 781 - Client Project

Electives – Credits: 6

Complete 6 credits of electives from any 600/700-level course offered by the Lee Business School.

Degree Requirements

1. Completion of a minimum of 24 credits of MS HOA courses and a minimum of 24 credits of MS MIS courses.

2. A grade point average of at least 3.00 for course work required for the degree.

3. No grade lower than C is acceptable.

4. With approval of the MS MIS program graduate coordinator, required MIS courses may be substituted with elective courses to avoid duplication of a student's previous course work and to address the needs of the student's specific career choice.

5. Students with unsatisfactory progress toward the degree requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses for the degree will be put on probation for one semester. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in departure from the program. A student with two grades of C or lower will be dropped from the program.

6. The Hotel Administration portion of the dual degree program requires successful completion of a professional paper that must adhere to the standards in the American Psychological Association’s current publication manual regarding writing style and format. This paper must be completed at the end of the dual program and examine a topic relating to Information Technology in Hospitality.

Plan Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.

3. Successfully complete a professional paper.
MGT 709 - New Venture Feasibility Credits 3
This course emphasizes feasibility analysis as students choose business opportunities they will pursue. In conjunction with case study analysis and interaction with local entrepreneurs, students will assess the technical merits, operational logistics, legal ramifications, consumer needs and demands, team skills and abilities, and the financial viability of their new venture. Prerequisites: Admission to the MBA program, or NVM Certificate Program.

MGT 710 - New Venture Creation Credits 3
Concerned with development of the business tools and skills necessary to successfully create an entrepreneurial venture. Focus includes evaluation of new venture opportunities, obtaining capital and other resources, personnel issues, business operations, and legal considerations. Students will prepare and present a business plan. Prerequisites: MGT 709, admission to the MBA program, or NVM Certificate Program.

MGT 711 - Seminar in Negotiation Credits 3
Enhances students' abilities to use negotiation as a tool for managing conflict, making deals, and making team decision. Examines important aspects of the negotiation process, including preparations, strategies and tactics, international issues, the role of third parties, and ethical issues. Prerequisites: Admission to the MBA Program or approval of the Director of MBA Programs.

MGT 712 - Change Management Credits 3
Change management is the process of transforming an organization's operations to enhance individual and organizational effectiveness. Both the rate of change and its importance to senior management seem to be accelerating. Examines competing models of change, considers various change methodologies, and explores examples of best practice. Prerequisites: Admission to the MBA program or approval of the MBA Director.

MGT 740 - Effective and Applied Human Resources Management Credits 3
This course provides an overview of the issues involved in managing an organization's human resources. This includes planning staffing needs, recruiting, hiring, developing and compensating employees, managing their performance and legal issues. The course is designed to help you gain the knowledge of human resource management essential for you as either a line manager or human resource specialist. Discussions, case analyses and role-playing exercises will be the dominant teaching methods used in this course. Notes: Cannot be repeated for credit. Grading: Letter Grade.

MGT 745 - Contemporary Topics in Human Resource Management Credits 3
Builds on concepts introduced in the Foundations of Human Resources (HR) course with emphasis on current issues in HR. How employee policies and HR impact the employment relationship from both the employee and employer perspective. Demonstrates the overlap between HRM and other business functions. Grading: Letter grade
Prerequisites: Admission to the MBA program or approval of the Director of MBA Programs.

MIS 671 - Big Data Credits 3
Introduction to big data concepts, tools and methods. Explores big data principles and information technology innovation in organizations. Includes an introduction to multiple tools and statistical concepts related to the contemporary analysis of big data. Notes: This course is crosslisted with IS 471. Credit at the 600-level requires additional work. Prerequisites: Admission to a graduate program in MIS, Data Analytics and Applied Economics or consent of the Director of MIS Graduate Programs.

MIS 740 - Software Concepts Credits 3
First course in programming for non-programmers aimed at developing a proficiency in designing and writing programs using a high-level programming language. Topics include standard programming constructs (conditionals, loops, etc.), concept of an algorithm, and fundamental data types (numbers, strings, arrays, etc.). Prerequisites: Admission to a graduate program in MIS, Data Analytics and Applied Economics or consent of the Director of MIS Graduate Programs.

MIS 744 - Information Systems Strategy Credits 3
Aspects of developing, implementing and evaluating strategies and plans for organizations and their use of technology. Foundational theories in business strategy and the impact on current technological issues. Prerequisites: Complete two of the following courses: MIS 740, MIS 762, MIS 764 or MIS 766

MIS 746 - Information Systems Project Management Credits 3
Conceptual material on project management techniques. Planning, organizing and controlling of projects in manufacturing and service organizations. Includes project management process, project scheduling, project resource management, schedule duration risk analysis and management of project. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 752 - Advanced Topics in MIS Credits 1-3
Advanced or specialized study in a special topic or subject area in information systems. Notes: May be repeated with different subject matter to a maximum of six credits. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 753 - Independent Study Credits 3 – 6
Independent study under the direction of a faculty advisor of a topic in information systems. Notes: May be repeated for credit. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 755 - Internship Credits 3
Supervised practical experience with a participating enterprise or government agency, culminating in a written report. Notes: May be repeated to a maximum of six credits. Grading: S/F grading. Prerequisites: MS MIS program admission

MIS 760 - Data Communications and Systems Credits 3
Concepts, models, architectures, protocols, standards, and security for the design, implementation, and management of digital networks. Essentials of local area networks (LAN), metropolitan area networks (MAN), and wide area networks (WAN). Transmission and switching efficiency, and regulatory and technical environments. Topics include: security and authentication, operating systems, e-commerce etc. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 761 - Data Analytics Statistical Methods and Tools Credits 3
Explores how data analytics relates to the scientific method, and then employs advanced statistical techniques for the contemporary analysis of organizational data. Taking an analytical approach, the applicability of particular statistical approaches/packages for gaining a business understanding in specific settings will be examined. Grading: Letter grade

MIS 762 - Systems Analysis, Modeling and Design Credits 3
Systems development life cycle, analysis and design techniques. Information systems planning, project identification and selection, requirements collection and structuring, process modeling, data modeling. Design of interface and data management, system implementation and operation, system maintenance, and change management. Rapid application development and prototyping. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 764 - Electronic Commerce Credits 3
Integration of technology and commercial practices for doing business on the Internet to improve competitive advantage and expand business strategy. Heavy focus is given to business models and how modern technologies have modified their application. Extensive use of business cases. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.
MIS 765 - Advanced Web Application Development Credits 3
Covers various Internet development approaches and architectures. Technologies such as HTML, CSS, client-side scripting, server-side scripting, and databases are used. Provides hands-on experience for students to actively develop Web-based business applications that extract and deliver information over the Internet. Prerequisites: MIS 740

MIS 766 - Data Management Credits 3
Concepts, principles, issues and techniques for managing corporate data resources. Techniques for managing design and development of large database systems including logical data models, concurrent processing, data distribution, database administration, data warehousing, data cleansing, and data mining. Prerequisites: Admission to a graduate program in MIS, Data Analytics and Applied Economics or consent of the Director of MIS Graduate Programs.

MIS 768 - Java Programming Credits 3
Java programming language, platform, software delivery environment, internet commerce environment, applications vs. applets/services, Java APIs and extensions, paradigms in information systems, network computers, security and future directions. Prerequisites: MIS 740

MIS 770 - IS Security Credits 3
Investigates a broad selection of contemporary issues in information security and assurance, including an introduction to state-of-the-art security tools used in this field. Course focuses on understanding risks to information and how to appropriately manage these risks. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 771 - IS Audit & Control Credits 3
This course will cover how controls are used to assure that processes are adherent with policies, standards and regulations. Controls will be evaluated in regards to their appropriateness and to their operating effectiveness. This course will provide an exposure to the COBIT framework, corporate governance and the IT audit process.

MIS 772 - Big Data Credits 3
Introduction to big data concepts, tools and methods. Explores big data principles and information technology innovation in organizations. Includes an introduction to multiple tools and statistical concepts related to the contemporary analysis of big data. Same as No Prerequisites: Admission to a graduate program in MIS, Data Analytics and Applied Economics or consent of the Director of MIS Graduate Programs. Completion of one of the following two courses: MIS 740 or MIS 768

MIS 773 - Research Seminar in Information Systems Credits 3
Survey a range of historic and current research in IS to understand current problems of interest to IS researchers and methods used to address them. A major deliverable for the course will be a proposal for a thesis research project. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 774 - IT Governance Credits 3
This seminar addresses roles and responsibilities of IT executives. It offers sourcing strategies and practices for vendor selection and evaluation, negotiation, contract management, risk mitigation, partnership development, intellectual property, talent retention, communication, governance and success measures. Prerequisites: Admission to a graduate program in MIS.

MIS 775 - Cloud Computing Credits 3
How IT Architecture can meet corporate information system needs. Topics include system scaling, architecture design, enterprise integration, service-oriented architectures, web services, agile application development, corporate IT security, disaster recovery, cost of ownership, and others. Students apply concepts using IBM system i. Prerequisites: MIS 762 or Instructor Consent.

MIS 776 - Business Intelligence Credits 3
Business intelligence refers to the set of technologies and tools that enable organizations to integrate, store, analyze, and report data for the purpose of obtaining competitive advantage. Students will be exposed to key components of business intelligence applications, including defining data structure, analyzing cubes, data mining, and reporting. Same as No Prerequisites: MIS 766 and MIS 761. Complete one of the following MIS 740 or MIS 768.

MIS 777 - Project Feasibility Study and Proposal Credits 3
Mastery of methods and techniques required to propose new systems for processes, applications and products, including idea generation, data collection, analysis, project proposals, client presentations, sourcing and vendor negotiation. Emphasis on data collection techniques, including structured and unstructured individual and group interviews, survey questionnaires, observation, and document analysis. Prerequisites: Admission to a graduate program in MIS or consent of the Director of MIS Graduate Programs.

MIS 778 - Technology Innovation and Feasibility Analysis Credits 3
This course emphasizes a technology feasibility analysis. In conjunction with case study analysis and interaction with local entrepreneurs and business leaders, students will assess the technical merits, operational logistics, legal ramifications, consumer needs and demands, team skills and abilities, and the financial viability of a technological innovation.

MIS 779 - Technology Venture Creation Credits 3
The Technology Venture Creation course take students from the idea stage to the startup of a new technology based venture. The key output from the course will be a business plan for a new technology venture that can be taken to investors for funding. Prerequisites: MIS 778 or consent of instructor.

MIS 780 - Thesis Credits 3 – 6
A substantial piece of work demonstrating the use of research methods and presentation of research results. Students must complete twelve required credit hours before they can register for this course. This course is a six-credit hour thesis and is expected to take two semesters to complete. Completion of the thesis requires a successful defense. Notes: May be repeated to a maximum of eighteen credits. Prerequisites: MIS 773 with a minimum grade of B.

MIS 781 - Client Project Credits 3
Culminating experience for MIS students. Requires the practical application of concepts learned in the program. Reinforcement of client expectation management, proposal writing and professional communication. Same as No Prerequisites: Last year in an MIS program, MIS 744.

DA 701 - Data Research Methods and Tools Credits 3
Understanding of the Cross-Industry Standard Process for Data Mining (CRISP-DM), how the methodology relates to the scientific method, as well as statistical methodologies related to the analysis of organizational data. As well as learn about the applicability of particular statistical approaches/packages for gaining business understanding in specific settings. Prerequisites: Admission into the Certificate in Data Analytics program.

DA 702 - Applied Big Data Credits 3
Big data concepts, tools and methods. Exposure to big data principles as well as learn about information technology innovations in organizations. Introduction to multiple tools and statistical concepts related to the contemporary analysis of big data. Prerequisites: Admission into the Certificate in Data Analytics program.

DA 703 - Applied Data Management Credits 3
Subjects include the theory, design, development, and management of information. Focusing on providing tools and an understanding of data storage and retrieval for data analytics. Basic technical instruction will include normalization, and Structured Query Language. Prerequisites: Admission into the Certificate in Data Analytics program.

DA 704 - Applied Business Intelligence Credits 3
Skills, technologies, applications, and practices to leverage the organizations’ internal and external information assets for making intelligent business decisions in organizations. Understanding of the relevance of information technology (IT) in organizational decision-making. Topics include decision-making, decision support systems, text/data mining, data warehousing, and business performance management. Prerequisites: Admission into the Certificate in Data Analytics program.
Marketing and International Business

The Department of Marketing and International Business provides a professional orientation to education with coursework emphasizing both the theory and the practice of Marketing and International Business. The Marketing degree strives to instill a marketing frame of reference in doing business; to develop an understanding and appreciation of how marketing interacts with the other aspects of an organization; and to establish a foundation of marketing knowledge that will best prepare majors and minors for careers in their chosen fields. Students are provided with the knowledge of business and marketing theory along with opportunities to apply that knowledge in simulated or real business situations.

Students with degrees in marketing obtain employment in a wide range of marketing-related fields, including retailing, product/brand management, advertising, distribution, international business, marketing research, purchasing, services marketing, sports marketing, hospitality, and sales management. Upon graduation, students are also prepared to enter programs for advanced degrees in such areas as business administration, public administration, law, economics, and hotel administration.

Every major industry has an increased global presence. The International Business program provides students with the analytical tools and conceptual knowledge to understand international marketing, finance, and strategy. The International Business program prepares students for careers with multinational firms within the United States or with international organizations. Competency in a foreign language is a requirement of the program.

Marketing and International Business Faculty

Chair
Mejia, Michael - Full Graduate Faculty Associate Professor; B.A., University of Connecticut; MBA, Ph.D., University of Maryland. Rebel since 1998.

Faculty
Cross, James - Full Graduate Faculty Associate Professor; B.S., MBA, Ph.D., University of Minnesota. Rebel since 1989.
Hsu, Chin-Chun (Vincent) - Full Graduate Faculty Professor; B.S., Tamkang University; MBA, California State University, San Bernardino; Ph.D., Saint Louis University. Rebel since 2003.
Krishen, Anjala - Full Graduate Faculty Associate Professor; B.S., Rice University M.S., M.B.A., Ph.D., Virginia Polytechnic Institute and State University. Rebel since 2007.
Naylor, Gillian - Full Graduate Faculty Associate Professor; B.A., Washington State University; MBA, Eastern Washington State University; Ph.D, University of Arizona. Rebel since 1996.
Nill, Alexander - Full Graduate Faculty Professor; M.A., Ludwig-Maximilian University; B.D.A., Ph.D., University of Innsbruck. Rebel since 1999.
Pomirleanu, Nadia - Full Graduate Faculty Assistant Professor; B.S., Academy of Economic Studies; Ph.D., University of Central Florida. Rebel since 2009.
Schibrowsky, John - Full Graduate Faculty Professor; B.S., University of Wisconsin-Superior; MBA, University of Northern Iowa; Ph.D., University of Wisconsin-Madison. Rebel since 1988.
Tan, Kehb-Choon - Full Graduate Faculty Professor; B.S., MBA, University of South Alabama; Ph.D., Michigan State University. Rebel since 1998.
Wisner, Joel D. - Full Graduate Faculty Professor; B.S., New Mexico State University; MBA, West Texas State University; Ph.D., Arizona State University. Rebel since 1991.

IB 787 - International Seminar Credits 3
A field study that exposes students to the competitive environment of an international business in the EU, Asia, South America or other emerging markets. Students will visit selected organizations, operating outside the USA, to learn first-hand the businesses’ processes and experience the socio-cultural elements of the selected country. Formerly MGT 787 Notes: May be repeated to a maximum of 6 credits. Prerequisites: 12 hours of graduate course study or consent of the MIB department.

MKT 664 - Professional Sales Negotiations Strategies and Tactics Credits 3
The theory, processes, and practices of sales negotiation, relationship building and conflict resolution. Develops an understanding of the marketing theories, strategies, and tactics of effective sales negotiation, conflict resolution, and relationship management. Notes: May not be repeated for credit. This course is crosslisted with MKT 464. Credit at the 600-level requires additional work. Grading: Letter Grade

MKT 673 - Business Marketing Credits 3
Provide a thorough grounding in industrial or business-to-business marketing. While many of the concepts are similar to those used in consumer marketing, there are significant differences. This course will explore both the similarities and the differences. Notes: This course is crosslisted with MKT 473. Credit at the 600-level requires additional work. Prerequisites: Graduate standing

MKT 711 - Strategic Marketing Management Credits 3
Development of effective strategic marketing analysis, planning, implementation, and control skills. Emphasis on market appraisal, industry structure, competitive advantage, product management, distribution strategy, promotion management, market segmentation, positioning strategies, and strategic marketing program decision making. Stresses case analysis and the solution of strategic marketing problems. Prerequisites: Graduate standing.

MKT 720 - International Marketing Research Credits 3
Design, analysis, interpretation, and communication of measurement and multivariate techniques to assess customer satisfaction, service quality and related marketing issues. Includes scaling, sampling, data collection, reliability, and validity. Prerequisites: Knowledge of statistics; graduate standing.

MKT 725 - Global Consumer Behavior Credits 3
This course examines global market segments, how to reach them, the consumer buying process across countries, and psychological and sociological variables which influence and motivate consumers. This course will broaden the understanding and evaluation of consumer behavior concepts as they pertain to domestic and global marketing strategies. Same as IB 725. Notes: Not repeatable for credit. Grading: Letter grade.

MKT 737 - New Service and Product Development Credits 3
New service and product development process. Evaluation of potential markets. Identification design, and development of new services and products consistent with customer needs. Idea generation, concept testing, test marketing and commercialization discussed. Prerequisites: Graduate standing.

MKT 747 - Global Digital Marketing Strategies Credits 3
This course explores the role of the internet in marketing strategy within the US and worldwide. Digital marketing encompasses marketing using global digital channels to reach consumer. It extends beyond the internet to other forms of new media. It includes online advertising social media, and search engine optimization. Same as IB 747 Notes: Nonrepeatable for credit. Grading: Letter Grade.

MKT 757 - Strategic Database Marketing Credits 3
Theory and practice of use of databases to enhance marketing programs and build customer relationships. Topics include: one on one marketing, relationship building strategies, customer cloning, RFM, calculating lifetime value of customers, modeling tools and processes, customization of offers and retention strategies. Prerequisites: Graduate standing.
MKT 767 - Independent Study in Marketing  Credits 3
Selected Marketing or International Business topics. Notes: May be repeated to a maximum of 6 credits. Prerequisites: 12 hours completed in the core MBA curriculum (MBA 761, MBA 763, MBA 765, MBA 767, MBA 775).

MKT 777 - Services Marketing  Credits 3
Marketing problems and strategies specific to service industries. Differences in the marketing of intangibles and services. Emphasis on services in general, rather than any particular industry. Concepts applied to such service of the art information for marketing in today’s changing environment. Key topics include: competitive advantage, segmentation, relationship development, and competitive positioning. Prerequisites: Graduate standing
College of Education

The College of Education is committed to creating an intellectual environment that promotes quality instruction, significant research and external funding, and professional service. Our mission is to achieve prominence locally, nationally, and internationally as a leading source of significant knowledge and innovative models to inform and affect policy, practice, and research. Particular attention is focused on preparing professionals for diverse educational and clinical settings and on contributing to educational and pedagogical knowledge through scholarly endeavors. Furthermore, the College of Education is committed to creating an inclusive learning environment that values and promotes diversity. Collaboration among students, faculty, other professionals, and community members is essential to being a premier college of education.

The College of Education provides dynamic graduate programs that engage students in field-based practice and research, offering students an exciting opportunity to study at a nationally recognized university situated within one of the fastest growing cities and school districts in the country.

Graduate programs in the College of Education include master, educational specialist, and doctoral degrees as well as post-baccalaureate programs for initial teacher licensure and additional endorsement to licensure. These programs are available in four departments: Department of Counselor Education, School Psychology, and Human Services; Department of Early Childhood, Multilingual, and Special Education, Department of Educational Psychology & Higher Education, and Department of Teaching & Learning. The College of Education has an outstanding graduate faculty who are nationally recognized for their scholarship and leadership in their respective disciplines.

The College of Education is accredited by the Northwest Commission on Colleges and Universities (NWCCU), which is an independent, non-profit membership organization recognized by the U.S. Department of Education as the regional authority on educational quality and institutional effectiveness of higher education institutions in the seven-state Northwest region of Alaska, Idaho, Montana, Nevada, Oregon, Utah, and Washington. It fulfills its mission by establishing accreditation criteria and evaluation procedures by which institutions are reviewed. The COE is also accredited by the State of Nevada and the National Association of School Psychologists.

Kim K. Metcalf, Ph.D., Dean, College of Education
Danica G. Hays, Ph.D., Executive Associate Dean, College of Education
Tracy Spies, Ph.D., Associate Dean for Academic and Professional Programs
Sean Mulvenon, Ph.D., Associate Dean for Research and Sponsored Projects

Educational Psychology and Higher Education

The Department of Educational Psychology & Higher Education provides instruction in, and the delivery of innovative research, to inform the educational process from early childhood through higher education. Our mission is accomplished through:

- Preparing graduates for leadership positions in diverse settings and roles, including faculty in colleges and universities, student services in higher education, measurement and evaluation specialists in public and private settings, school psychology practitioners at local, state, national, and international levels, and licensed administrators for PK-12 schools.
- Providing foundational support for programs across the university including core content in the psychology of learning, motivation, cognition, problem solving, instruction, human development, and psychological and educational measurement, statistics, evaluation, and research methodology.
- Investigating educational policy and informing practice in PK-12 and higher education institutions.

Alice J. Corkill, Chair
Nancy Lough, Graduate Coordinator
Dana Bickmore, Graduate Coordinator
Maria Roberts, Graduate Coordinator

Educational Psychology and Higher Education Faculty

Chair
Corkill, Alice Jane - Full Graduate Faculty Associate Professor; B.A., M.A., Ph.D., University of Nebraska. Rebel since 1992.
Graduate Coordinator
Bickmore, Dana L. - Full Graduate Faculty Associate Professor; B.A., M.A., University of Utah; Ph.D., University of Georgia. Rebel since 1992.
Lough, Nancy L. - Full Graduate Faculty Professor; B.A., M.A., University of Northern Colorado. Rebel since 2006.
Graduate Faculty
Bendixen, Lisa - Full Graduate Faculty Associate Professor; B.A., Creighton University; M.A., Ph.D., University of Nebraska-Lincoln. Rebel since 1999.
Garza, Tiberio - Associate Graduate Faculty Assistant Professor; B.A., M.Ed., Ph.D., Texas A&M University. Rebel since 2015.
Gonzales, Miguel - Assistant Professor; B.A., University of California, Santa Barbara; M.A.T., Chapman University; Ed.D., University of Southern California. Rebel since 2018.
Kardash, CarolAnne M. - Full Graduate Faculty Professor; B.A., Le Moyne College; M.S., College of St. Rose; Ph.D., Arizona State University. Rebel since 2001.
Marianno, Bradley - Full Graduate Faculty Assistant Professor; B.A., M.S. Brigham Young University; M.A., Ph.D., University of Southern California. Rebel since 2018.
McCafferty, Steven - Full Graduate Faculty Professor; B.A., California State University; M.A., University of Hawaii; Ph.D., University of New Mexico. Rebel since 1995.
Doctor of Philosophy - Educational Psychology

Plan Description

The Educational Psychology Ph.D. is designed to provide advanced studies in educational psychology with four primary strands: 1) Educational Psychology Foundations with specialty area emphases in educational assessment, program evaluation, research, and learning in school and related domains, 2) Post-Bachelors Educational Psychology Foundations, 3) School Psychology, and 4) School Counselor Education. This program will provide opportunities for students to become independent scholars who are able to make significant contributions to knowledge in specialized areas of educational psychology where both regional and national need for trained professionals has been identified.

The four strands in the program focus on the outcomes and processes that promote more effective learning in school based and related applications. Students in all strands will take core courses in: 1) research methods and statistics, 2) learning and cognition, and 3) advanced studies in a domain of school psychology.

The program will prepare students for a variety of professional careers related to teaching, research, and professional practice in both academic and nonacademic settings. For example, students will be prepared to fill faculty, research, or assessment positions at academic institutions, such as universities, community colleges, and K-12 school districts.

Representative occupations include educational psychologist, program evaluator, director of school counseling, school counselor educator, educational assessment coordinator, school psychologist, and employee training specialist. Graduates from the school psychology specialization strand can find employment in universities, public and private schools, and as mental health service providers in agencies and private practice.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the Foundations Post-Master's, School Psychology, and School Counselor Tracks will be limited to the most qualified applicants based on a combination of the following:

1. An undergraduate grade point average of 3.00 or above.
2. If graduate course work has been completed, a graduate grade point average of 3.00 or above.
3. Preference given to scores that relate to the 50th percentile or better on the verbal and quantitative sections of the Graduate Record Examination (GRE).

4. A score of 600 or above on the Test of English as a Foreign Language (TOEFL) is also required for students who do not speak English as their language.

5. Three letters of reference from university faculty or other individuals qualified to judge the applicant's academic potential.

6. The applicant's statement of professional interests and goals.

7. A scholarly or professional writing sample.

8. Graduate College application is available online. Applications for admission will be considered once a year. The deadline for the receipt of applications is February.

Foundations Post-Master’s Track
Students must have a master’s equivalent degree to be considered for admission.

School Psychology Track
Students must have a bachelor's degree. Many students admitted for this strand have completed their Ed.S. from a NASP-approved program, or its equivalent, as evidence of the knowledge base of a professional school psychologist. Students without this foundation are considered for admission with understanding that their programs of study will include content from our Ed.S. program.

School Counselor Track
Students must have a master's degree in a school counseling program accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP) or must have completed the substantial equivalent of such program. Students with degrees in other counseling specialties will be considered for admission with the understanding that additional course work will be required as part of their doctoral programs.

Admission to the Foundations Post-Bachelor’s Track will be limited to the most qualified applicants who also aim to pursue a research program based on a combination of the following:

1. An undergraduate grade-point average of 3.25 or above.

2. If graduate coursework has been completed, a graduate, grade-point average of 3.25 or above.

3. Students must score at or above the 50th percentile on the verbal and quantitative sections of the Graduate Record Examination (GRE).

4. A score of 600 or above on the Test of English as a Foreign Language (TOEFL) is also required for students who do not speak English as their first language.

5. Three letters of reference from university faculty or other individuals qualified to judge the applicant's academic potential.

The applicant must submit a statement of professional interests and goals which explicitly indicates both a potential area of research and names a faculty mentor.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements Below.

Subplan 2: Foundations Post-Bachelor’s Track

Subplan 1 Requirements: Foundations Post-Master’s Track
Total Credits Required: 66

Course Requirements
Research Methods Courses – Credits: 15
- EDH 707 - Designing & Critiquing Research In Education
- EPY 718 - Qualitative Research Methodologies
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 723 - Psychometrics I
- EPY 730 - Advanced Research Methods

Learning Theory Courses – Credits: 12
- EPY 751 - Motivation Theories and Applications in Education
- EPY 752 - Self-Regulated Learning, Metacognition, and Motivation
- EPY 767 - Human Learning and Cognition
- EPY 777 - Cognitive Development

Advanced Research Methods Courses – Credits: 12
- EPY 719 - Advanced Qualitative Research
- EPY 732 - Multiple Regression
- EPY 733 - Multivariate Statistics
- EPY 734 - Structural Equation Modeling

Emphasis Area Courses – Credits: 15
Complete 15 credits of advisor-approved coursework within a disciplinary content area of emphasis.

Dissertation – Credits: 12
- EPY 799 - Dissertation

Degree Requirements
1. Student must successfully complete a minimum of 66 credit hours while maintaining a grade point average of 3.00 or better in the program and a grade of B or better in core course work.

2. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth
member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

3. Specific specialization courses in the assessment, program evaluation, research, and learning in school domains strands are determined by the student in consultation with her or his committee.

4. Each student, in consultation with advisor and doctoral committee, selects an individual emphasis area and determines the specific courses to be completed.

5. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits (Review I). The student must be the first author on a manuscript submitted to a journal of quartile 2 or higher (SCIMAGO listing) that is distributed for peer review. Empirical or review manuscripts are acceptable. This requirement is considered complete when the manuscript is assigned a number by the editor of the journal to which it was submitted. Projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator(s): (a) a copy of the a copy of the manuscript, (b) a submission acknowledgment (including assigned manuscript number), and (c) a completed Review I form from the supervising faculty member.

6. Each student must take the preliminary examination (Review II). This second formal assessment, typically completed during the last semester of formal classwork, is an examination that will focus on areas of knowledge that are most relevant to the student's proposed dissertation topic. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student's proposed dissertation topic as well as on the student's mastery of previously learned core information.

7. After successfully completing Review I (i.e., satisfying the scholarly product requirement) and Review II (i.e., passing the preliminary examination), students can then submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Dissertation Prospectus” form to the Graduate College. The doctoral committee will meet and determine whether to accept or reject the prospectus. A prospectus can be accepted provisionally given that the student follows the committee's suggestions in the dissertation. Upon completion of the full dissertation, a defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College's policies for thesis and dissertation completion. It is the student's responsibility to file the required "Notification of Oral or Written Examination" form with the Graduate College in a timely manner.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Foundations Post-Bachelor's Track

Total Credits Required: 99

Course Requirements

Learning and Development Courses – Credits: 6
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Research Courses – Credits: 9
- EPY 702 - Research Methods
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- EPY 723 - Psychometrics I

Elective Courses – Credits: 12
Students must complete a minimum 12 credit hours of advisor-approved electives.

Thesis – Credits: 6
- EPY 749 - Thesis
After successfully completing the requirements above, students are eligible to earn the Master of Science - Educational Psychology.

Research Methods Courses – Credits: 12
- EDH 707 - Designing & Critiquing Research In Education
- EPY 718 - Qualitative Research Methodologies
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 730 - Advanced Research Methods

Learning Theory Courses – Credits: 12
- EPY 751 - Motivation Theories and Applications in Education
- EPY 752 - Self-Regulated Learning, Metacognition, and Motivation
- EPY 767 - Human Learning and Cognition
- EPY 777 - Cognitive Development
Advanced Research Methods Courses – Credits: 12
- EPY 719 - Advanced Qualitative Research
- EPY 732 - Multiple Regression
- EPY 733 - Multivariate Statistics
- EPY 734 - Structural Equation Modeling

Emphasis Area Courses – Credits: 18
Complete 18 credits of advisor-approved coursework within a disciplinary content area of emphasis.

Dissertation – Credits: 12
- EPY 799 - Dissertation

Degree Requirements
1. Student must successfully complete a minimum of 99 credit hours while maintaining a grade point average of 3.00 or better in the program and a grade of B or better in core course work.

2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

3. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

4. Each student, in consultation with advisor and doctoral committee, selects an individual emphasis area and determines the specific courses to be completed.

5. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits beyond the MS degree credits (Review I). The student must be the first author on a manuscript submitted to a journal of quartile 2 or higher (SCIMAGO listing) that is distributed for peer review. Empirical or review manuscripts are acceptable. This requirement is considered completed when the manuscript is assigned a number by the editor of the journal to which it was submitted. Projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator(s): (a) a copy of the paper, (b) a submission acknowledgment (including assigned manuscript number), and (c) a completed Review I form from the supervising faculty member.

6. Each student must take the preliminary examination (Review II). This second formal assessment, typically completed during the last semester of formal classwork, is an examination that will focus on areas of knowledge that are most relevant to the student’s proposed dissertation topic. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student’s proposed dissertation topic as well as on the student’s mastery of previously learned core information.

7. After successfully completing Review I (i.e., satisfying the scholarly product requirement) and Review II (i.e., passing the preliminary examination), students can then submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Dissertation Prospectus” form to the Graduate College. The doctoral committee will meet and determine whether to accept or reject the prospectus. A prospectus can be accepted provisionally given that the student follows the committee’s suggestions in the dissertation. Upon completion of the full dissertation, a defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College’s policies for thesis and dissertation completion. It is the student’s responsibility to file the required “Notification of Oral or Written Examination” form with the Graduate College in a timely manner.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis after 27 credits of initial coursework and a minimum of 6 credits of thesis coursework to be completed by the posted deadline to be eligible to earn the Master of Science - Educational Psychology. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must submit and successfully defend his/her dissertation after a minimum of 84 credits of initial coursework and a minimum of 12 credits of dissertation coursework and have it completed by the posted deadline to be eligible to earn the Doctor of Philosophy - Educational Psychology. The defense must be advertised and is open to the public.
5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

**Subplan 3 Requirements: School Psychology Track**

**Total Credits Required: 67**

**Course Requirements**

- **Proseminar Course – Credits: 1**
  - EPY 701 - Proseminar in Educational Psychology

- **Research Methods Courses – Credits: 12**
  - EPY 718 - Qualitative Research Methodologies
  - EPY 722 - Inferential Statistics and Experimental Design
  - EPY 723 - Psychometrics I
  - EPY 730 - Advanced Research Methods

- **Additional Research Methods Course – Credits: 3**
  Complete one of the following courses:
  - EPY 716 - Evaluation Research Methods
  - EPY 719 - Advanced Qualitative Research
  - EPY 724 - Psychometrics II
  - EPY 733 - Multivariate Statistics
  - EPY 787 - Individual Research

- **Learning Theory Courses – Credits: 9**
  - EPY 757 - Theory and Philosophy of Educational Psychology
  - EPY 767 - Human Learning and Cognition
  - EPY 777 - Cognitive Development

- **Specialization Courses – Credits: 18**
  Complete 18 credits of advisor-approved coursework within your specified research area of focus.

- **Emphasis Area Courses – Credits: 12**
  Complete 12 credits of advisor-approved coursework within a disciplinary content area of emphasis.

- **Dissertation – Credits: 12**
  - EPY 799 - Dissertation

---

**Degree Requirements**

1. Student must successfully complete a minimum of 67 credit hours while maintaining a grade point average of 3.00 or better in the program and a grade of B or better in core course work.

2. Of the 67 credits, 18 must be in coursework tailored for the area of focus in the strand.

3. Of the 67 credits, 25 are in courses shared with other doctoral programs in the department.

4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Specific specialization courses in the assessment, program evaluation, research, and learning in school domains strands are determined by the student in consultation with her or his committee.

6. In addition to the required specialization courses, each student, in consultation with advisor and doctoral committee, selects an individual emphasis area and determines the specific courses to be completed.

7. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits (Review I). The student must be primarily responsible for carrying out and reporting a study under the supervision of a program faculty member. The requirement may be fulfilled in one of two ways. First, the study may involve the collection and analysis of some empirical data (for example, a pilot study) resulting in a scholarly paper that is submitted to either a professional journal or as a proposal to an annual conference of a national organization. Second, the paper may consist of a literature review that is submitted for publication in a quality, peer-reviewed journal or submitted for presentation at a national conference. Prior to beginning, projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator(s): (a) a copy of the paper, (b) a submission acknowledgment, and (c) a completed Review I form from the supervising faculty member.

8. Each student must take the preliminary examination (Review II). This second formal assessment, typically completed during the last semester of formal classwork, is an examination that will focus on areas of knowledge that are most relevant to the student’s proposed dissertation topic. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student’s proposed dissertation topic as well as on the student’s mastery of previously learned core information.
9. After successfully completing Review I (i.e., satisfying the scholarly product requirement) and Review II (i.e., passing the preliminary examination), students can then submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Dissertation Prospectus” form to the Graduate College. The doctoral committee will meet and determine whether to accept or reject the prospectus. A prospectus can be accepted provisionally given that the student follows the committee's suggestions in the dissertation. Upon completion of the full dissertation, a defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College's policies for thesis and dissertation completion. It is the student's responsibility to file the required "Notification of Oral or Written Examination" form with the Graduate College in a timely manner.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: School Counselor Track

Total Credits Required: 67

Course Requirements

Proseminar Course - Credits: 1
- EPY 701 - Proseminar in Educational Psychology

Research Methods Courses – Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 723 - Psychometrics I
- EPY 730 - Advanced Research Methods

Additional Research Methods Course – Credits: 3
Complete one of the following courses:
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 724 - Psychometrics II
- EPY 733 - Multivariate Statistics
- EPY 787 - Individual Research

Learning Theory Courses – Credits: 9
- EPY 757 - Theory and Philosophy of Educational Psychology
- EPY 767 - Human Learning and Cognition
- EPY 777 - Cognitive Development

Specialization Courses – Credits: 18
Complete 18 credits of advisor-approved coursework within your specified research area of focus.

Emphasis Area Courses – Credits: 12
Complete 12 credits of advisor-approved coursework within a disciplinary content area of emphasis.

Dissertation – Credits: 12 credits
- EPY 799 - Dissertation

Degree Requirements

1. Student must successfully complete a minimum of 67 credit hours while maintaining a grade point average of 3.00 or better in the program and a grade of B or better in core course work.

2. Of the 67 credits, 18 must be in coursework tailored for the area of focus in the strand.

3. Of the 67 credits, 25 are in courses shared with other doctoral programs in the department.

4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

5. Specific specialization courses in the assessment, program evaluation, research, and learning in school domains strands are determined by the student in consultation with her or his committee.

6. In addition to the required specialization courses, each student, in consultation with advisor and doctoral committee, selects an individual emphasis area and determines the specific courses to be completed.

7. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits (Review I). The student must be primarily responsible for carrying out and reporting a study under the supervision of a program faculty member. The requirement may be fulfilled in one of two ways. First, the study may involve the collection and analysis of some empirical
data (for example, a pilot study) resulting in a scholarly paper that is submitted to either a professional journal or as a proposal to an annual conference of a national organization. Second, the paper may consist of a literature review that is submitted for publication in a quality, peer-reviewed journal or submitted for presentation at a national conference. Prior to beginning, projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator(s): (a) a copy of the paper, (b) a submission acknowledgment, and (c) a completed Review I form from the supervising faculty member.

8. Each student must take the preliminary examination (Review II). This second formal assessment, typically completed during the last semester of formal classwork, is an examination that will focus on areas of knowledge that are most relevant to the student’s proposed dissertation topic. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student’s proposed dissertation topic as well as on the student’s mastery of previously learned core information.

9. After successfully completing Review I (i.e., satisfying the scholarly product requirement) and Review II (i.e., passing the preliminary examination), students can then submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Dissertation Prospectus” form to the Graduate College. The doctoral committee will meet and determine whether to accept or reject the prospectus. A prospectus can be accepted provisionally given that the student follows the committee’s suggestions in the dissertation. Upon completion of the full dissertation, a defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College’s policies for thesis and dissertation completion. It is the student’s responsibility to file the required “Notification of Oral or Written Examination” form with the Graduate College in a timely manner.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 1 Requirements: Foundations Post-Master’s Track
Subplan 2 Requirements: Foundations Post-Bachelor’s Track
Subplan 3: School Psychology Track
Subplan 4: School Counselor Track

Doctor of Philosophy - Higher Education

Plan Description

The Doctor of Philosophy – Higher Education is grounded in the concept that successful higher educational leaders must be well-informed and context sensitive professionals who make theory based, research supported, and data driven decisions.

The primary objectives of the program are to:

1. Prepare students for administrative positions in community colleges, four year colleges, universities, and other public and private learning and policy environments;

2. Prepare individuals for faculty positions in higher education; and

3. Assist doctoral students in the development of skills in assessment and evaluation, research design, and quantitative and qualitative methodologies appropriate for leadership roles as faculty or administrators in higher and postsecondary education.

Students can elect to specialize in any of three emphasis areas: higher education leadership, including university and community college leadership; higher education policy and planning; and student affairs leadership. For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Entrance to the Ph.D. program requires candidates to complete three steps. Current application deadlines are posted on the website.

Minimum admission requirements for UNLV’s Graduate College include:

1. Completed application for admission and the nonrefundable application fee;

2. One copy of official transcripts from all institutions attended after high school, including verification of a master’s degree from an accredited college or university.
More information is available on the Graduate College website.

Additional materials each candidate must also upload with the application:

1. Personal Statement of Professional Aspirations;
2. A professional résumé or vita;
3. Verification of experience in higher education or related field;
4. Scores from the Graduate Record Exam (GRE), the Graduate Management Admission Test (GMAT) or the Law School Admissions Test (LSAT). Score should be no more than five years old;
5. Two letters of nomination/professional reference;
6. Evidence of writing ability; see the website for specifics.

In the final step after reviewing all material, a select number of candidates will be invited for an interview with department faculty. The interview enables candidates to demonstrate their oral communication skills, commitment to continuing professional development, and to show their leadership, learning, and educational philosophy. Final admission will be based on evaluation of all application materials, including the interview.

For specific information on the Department Educational Psychology & Higher Education's Higher Education Ph.D. programs, please visit the website. Applicants interested in receiving a graduate assistantship must complete the Graduate Assistantship Application found on the Graduate College website. Potential students should also inform the program or doctoral admissions coordinator of their interest in the program.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 66

**Course Requirements**

Required Core Courses – Credits: 15

- EDH 703 - History of American Higher Education
- EDH 710 - Finance and Budgeting in Higher Education
- EDH 715 - Theory of Educational Organizations
- EDH 738 - Public Policy in Higher and Post-Secondary Education
- EDH 705 - HE Law-Doctoral
  
  Or

- EDH 742 - Academic Governance in Higher Education

Required Research Courses – Credits: 12

- EDH 707 - Designing & Critiquing Research In Education
- EPY 716 - Evaluation Research Methods
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 718 - Qualitative Research Methodologies

Research Elective Courses – Credits: 6

Complete two of the following courses in consultation with your program of study chair.

- EPY 719 - Advanced Qualitative Research
- EPY 729 - Qualitative Case Study Research
- EPY 732 - Multiple Regression
- EPY 733 - Multivariate Statistics

Specialization Courses – Credits: 15

Complete 15 credits from the following courses in consultation with your program of study chair.

- EDH 607 - Leadership Development Seminar
- EDH 609 - Leading Diverse Organizations
- EDH 618 - Facilities Management and Campus Planning
- EDH 719 - Institutional Advancement
- EDH 624 - Readings in Student Personnel Issues
- EDH 706 - Current Issues in Higher Ed
- EDH 708 - The American Community College
- EDH 732 - Readings in Administration of Higher Education
- EDH 733 - The Professorate
- EDH 737 - Ethical Dimensions of Higher Education Leadership
- EDH 739 - Organization Change & Innovation in Higher Education
- EDH 740 - Comparative and International Higher Education
- EDH 742 - Academic Governance in Higher Education
- EDH 745 - Institutional Planning in Higher Education
- EDH 750 - Special Topics in Higher Education
- EDH 780 - Seminar: Teaching in Higher Education
- EDH 791 - Doctoral Independent Study
Internship Course – Credits: 3
• EDH 790 - Doctoral Internship

Prospectus Course – Credits: 3
• EDH 796 - Dissertation Proposal Preparation

Dissertation – Credits: 12
• EDH 799 - Dissertation

Degree Requirements
1. Students must complete a minimum of 66 credit hours of approved course work with a minimum GPA of 3.00.

2. Students without a background in statistics may take EPY 721 – Descriptive/Inferential Statistics, but the course will not count as credits toward the doctoral program.

3. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

4. The doctoral comprehensive examination consists of two parts: A core examination and an individualized examination. Part I: Core examination:
   1. The core examination is offered twice a year (usually September and February). Students should take this examination as early in their programs as possible. Students are eligible to the Comprehensive Examinations if they have passed all core courses with a “B-” or better. No student with anything less than a “B-” in any core course will be allowed to take the Comprehensive Examination. A core course may be repeated, allowing the student an opportunity to earn a “B-” or better.
   2. To be eligible to sit for this examination, students must have completed the required core courses, the required research courses, and the methodology course.
   3. Each section of the comprehensive examination is taken over a two week period.
   4. Section One: Covers research design. It draws heavily on EDH 707 and the research core. Students are encouraged to integrate information from other methods courses into their answers. Information about this question is provided to students prior to the examination.
   5. Section Two: Affords student the opportunity to integrate basic historical, organizational, financial/economic, policy, and legal perspectives into a discussion of one or more current issues. Faculty members will meet with students prior to distributing this question to talk about specific, appropriate issues that may be addressed in this section of the exam.

6. The evaluation rubric is available for download from the department website. Students who do not pass a section of the comprehensive exams meet with their current advisor to discuss options and potential remedies.

7. The purpose of the individualized examination is to help students fill in gaps in their knowledge base and to help them move forward into the dissertation stage of the program.

5. All students are required to engage in an internship experience. Each internship is an individually designed, semester-long experience that can be repeated for credit for up to a maximum of 6 hours. Ordinarily, the internship is completed after the student has successfully passed the core comprehensive examination. There are three types of internships for doctoral students: Administrative, Teaching, and Research.
   1. Administrative internships enable students to apply the theory to practice. Internship placements are available in a variety of professional settings including UNLV, the Community College of Southern Nevada, Nevada State College, the Nevada System of Higher Education administrative departments, as well as in neighboring institutions of higher education and government policy and business environments. These are challenging experiences in which students are expected to make meaningful contributions that advance the goals of the host site.
   2. Teaching internships are done under the aegis of a faculty member. Doctoral teaching assistants may team with a faculty member in a Master's course or teach undergraduate courses.
   3. Research internships are usually done with the student's doctoral chair. These internships allow students to team with a faculty member on a research-based project, which may entail design, data collection, analysis, or writing.

1. Students must complete the residency requirement. Residency requirements are met following the completion of 42 credit hours, the comprehensive examinations, and by completing these outcomes:
   1. Completion of remaining course work, including research courses and electives.
2. Combination of doctoral internships and/or independent studies, as advised by student's doctoral advisor.


4. Completion of a national presentation and/or a manuscript submitted for publication consideration.

1. Students may use three credits of dissertation hours (EDH 799) towards their residency.

2. Residency requirements must be fulfilled prior to the dissertation proposal defense. Students must review an outcomes checklist with their advisors prior to the proposal defense to verify completion of residency. Upon completion of residency students should have 9 to 12 dissertation credits remaining in the program of study.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Doctor of Philosophy - Learning Sciences

Plan Description

The Learning Sciences Ph.D. is an academic program with an emphasis on the design and evaluation of learning environments, including but not limited to technology-rich environments. Students take core courses in: 1) the learning sciences, 2) research methods and statistics, and 3) advanced studies in a specialization area. The specialization areas are: (a) learning technology, (b) educational data science and statistics, (c) learning policy and organizational change, and (d) cognitive and developmental sciences. All students will be actively involved in research and research-related activities throughout their program of study.

The program will prepare students for a variety of professional careers related to teaching and learning in both academic and nonacademic settings. Graduates of the program will be prepared for a variety of professional positions (e.g., university and community college faculty, curriculum specialists, learning and technology specialists, employee training specialists, program evaluators, and instructional technology coordinators).

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission will be limited to the most qualified applicants based on a combination of the following:

1. An undergraduate grade point average of 3.00 or above.

2. If graduate course work has been completed, a graduate grade point average of 3.00 or above.

3. Preference given to students whose scores relate to the 50th percentile or better on the verbal and quantitative sections of the Graduate Record Examination (GRE).

4. A score of 600 or above on the Test of English as a Foreign Language (TOEFL) is also required for students who do not speak English as their first language.

5. Three letters of reference from university faculty or other individuals qualified to judge the applicant's academic potential.

6. The applicant's statement of professional interests and goals.

7. Graduate College application is available online.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 67

Course Requirements

Proseminar Course - Credits: 1

- EPY 701 - Proseminar in Educational Psychology

Learning Sciences Core – Credits: 15

- EPY 690 - Introduction to the Learning Sciences
- EPY 717 - Analysis of Applied Learning Principles and Educational Media
- EPY 767 - Human Learning and Cognition
- EPY 770 - Cognition and Instruction
- CIT 778 - Instructional Design
Core Research Courses – Credits: 15
- EPY 718 - Qualitative Research Methodologies
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 723 - Psychometrics I
- EPY 730 - Advanced Research Methods
- EPY 732 - Multiple Regression

Additional Research Courses – Credits: 6
Complete two of the following courses:
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 724 - Psychometrics II
- EPY 726 - Advanced Evaluation Research Methods
- EPY 729 - Qualitative Case Study Research
- EPY 731 - Mixed Methods Research
- EPY 733 - Multivariate Statistics
- EPY 734 - Structural Equation Modeling
- EPY 738 - Discourse Analysis
- EPY 745 - Categorical/Nonparametric Data Analysis
- EPY 746 - Multilevel Statistical Models: Theory and Application

Specialization Courses – Credits: 9
Complete 9 credits of advisor-approved coursework within one of the following specialization areas: (a) Learning Technologies, (b) Educational Data Science and Statistics, (c) Learning Policy and Organizational Change, or (d) Cognitive and Developmental Sciences.

Illustrative learning technology courses include, but are not limited to:
- CS 620 - Human-Computer Interaction
- CIT 770 - Foundations in Technology & Learning
- CIT 773 - Interaction Design
- CIT 774 - Behavioral Sciences & Technology
- CIT 775 - Affect & Technology
- CIT 776 - Emerging Technologies for Learning
- CIT 780 - Educational Technology Research and Practice
- MIS 746 - Information Systems Project Management
- MIS 764 - Electronic Commerce

Illustrative data science and statistics courses include, but are not limited to:
- EPY 734 - Structural Equation Modeling
- PSY 712 - Psychometrics
- ITE 651 - Managing Big Data and Web Databases
- MIS 776 - Business Intelligence

Illustrative learning policy and organizational change courses include, but are not limited to:
- EPL 731 - Leadership in a Digital Age
- EPL 732 - School and Community Leadership
- EPL 737 - Systematic Professional Development and Instructional Supervision
- EPY 742 - Language Diversity, Educational Policy & Equity
- EDH 738 - Public Policy in Higher and Post-Secondary Education
- EDH 739 - Organization Change & Innovation in Higher Education
- PSC 723 - Policy Analysis

Illustrative cognitive and developmental sciences courses include, but are not limited to:
- EPY 777 - Cognitive Development
- EPY 768 - Problem Solving and Reasoning
- PSY 721 - Developmental Science
- PSY 718 - Cognitive Science
- COM 781 - Seminar in Argumentation
- PHIL 634 - Philosophy Cognitive Science
- PHIL 640 - Theory of Knowledge

Elective Courses – Credits: 6
Student must take a minimum of 6 credit hours of advisor-approved elective courses that fall within any of the other program specialization areas or their own specialization courses.

Internship – Credits: 3
- EPY 794 - Internship
  (See Degree Requirement #4 below)

Dissertation – Credits: 12
- EPY 799 - Dissertation

Degree Requirements
1. Students must maintain a GPA of 3.00 or higher for all course work taken at the doctoral level.
2. Residence Credit Requirement: A minimum of 50 percent of the total credits required to complete the doctoral degree not including transferred and dissertation credits must be earned at UNLV after admission to the doctoral degree program.

3. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits (Review I). The student must be primarily responsible for carrying out and reporting a study under the supervision of a program faculty member. The requirement may be fulfilled in one of two ways. First, the study may involve the collection and analysis of some empirical data (for example, a pilot study) resulting in a scholarly paper that is submitted to either a professional journal or as a proposal to an annual conference of a national organization. Second, the paper may consist of a literature review that is submitted for publication in a quality, peer-reviewed journal or submitted for presentation at a national conference. Prior to beginning, projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator: (a) a copy of the paper, (b) a submission acknowledgment, and (c) a completed Review I form from the supervising faculty member.

4. Students must complete a one-semester or summer internship (EPY 794) with an employer. The purpose of the internship is to provide students with real-world experience in designing, implementing, or evaluating a learning environment, so as to augment students’ depth of knowledge and skills as Learning Scientists. The internship is also intended to enhance students’ employability. The internship, which may be paid or unpaid, must be with an employer (for example, text book publisher, school district, U.S. military, hotel/casino, museum); these may include appropriate units at UNLV outside of academic departments. The internship may, however, also be part of an academic research partnership involving these entities. The student is responsible for securing an internship opportunity. The internship may be completed at any point in the program prior to advancement to candidacy.

5. The internship must result in an academic research product (paper or report) that is partially or fully authored by the student. Proposals for internships that specify the employer, end product, and nature of the work must be approved by the student’s advisor before the internship commences.

6. In consultation with his/her advisor, a student will organize a dissertation committee of at least three program members. In addition, a fourth member from outside the program, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. The committee must be chaired by a program faculty member with a primary affiliation with the Department of Educational Psychology and Higher Education or co-chaired by such a faculty member and a program faculty member with a primary affiliation in another department. Please see Graduate College policy for committee appointment guidelines.

7. Students must successfully complete a preliminary examination. This formal assessment will focus on areas of knowledge that are most relevant to the student’s dissertation topic. The student and his/her committee will determine the content of this examination. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student’s proposed dissertation topic as well as on the student’s mastery of previously learned core information.

8. After successfully completing the scholarly paper requirement and preliminary examination, students can submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Prospectus Approval” form from the Graduate College. The doctoral committee will determine the acceptability of the prospectus. Upon completion of the dissertation, a defense will be scheduled and conducted in accordance with the Graduate College’s policies for thesis and dissertation completion.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Dual Degree: Doctor of Philosophy - Educational Psychology & Juris Doctor

Plan Description

The Educational Psychology Program in coordination with the UNLV Boyd School of law offers a dual JD/Ph.D. degree. The Educational Psychology Ph.D. is designed to provide advanced studies in educational psychology with two primary strands: 1) Educational psychology with specialty area emphases in educational assessment, program evaluation, research, and learning in school domains, and 2) School Psychology. This program will provide opportunities for students to become independent scholars who are able to make significant contributions to knowledge in specialized areas of educational psychology where both regional and national need for trained professionals has been identified.

The two strands in the program focus on the outcomes and processes that promote more effective learning in school based and related applications. Students in all strands will take core courses in: 1) research methods and statistics, 2) learning and cognition, and 3) advanced studies in a domain of school curriculum, school counselor education, or school psychology. All students will be actively involved in research and research-related activities throughout their program of study. The program will prepare students for a variety of professional careers related to teaching, research, and professional practice in both academic and nonacademic settings. For example, students will be prepared to fill faculty, research, or assessment positions at academic institutions, such as universities, community colleges, and K-12 school districts.

Representative occupations include educational psychologist, program evaluator, director of school counseling, school counselor educator, educational assessment coordinator, school psychologist, and employee training specialist. Graduates from the school psychology specializations strand can find employment in universities, public and private schools, and as mental health service providers in agencies and private practice.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the J.D./Ph.D. program must submit formal applications for admission to both the William S. Boyd School of Law and to the Graduate College. Students must meet the requirements for admission to both programs. Admission requirements are the same as those stated under the regular J.D. and Educational Psychology Ph.D. programs. Current application deadlines are posted on the website.

A dual program candidate must complete the Graduate College, Law School and Educational Psychology Program admission processes in order to matriculate. Successful completion of the first year of law school is a precondition to commencement of work on the Ph.D. program and waives the Master's Degree prerequisite for entry to the program. A law school student may be admitted to the dual program by gaining admission to the Educational Psychology Ph.D. program after successful completion of the first year of law school with the consent of both programs.

Under the terms and conditions of the program the Law School has agreed to accept 9 credits of course work from the Educational Psychology Program toward the J.D. degree. The Educational Psychology Ph.D. Program has agreed to accept 12 credits of course work from the Law School toward the Ph.D. degree.

Students interested in the dual program should alert Graduate College admission personnel when commencing the admission process. Students interested in the Dual Degree Program should alert the Dual Degree Program Coordinator, Dr. Rebecca Nathanson, so that consultation on the admissions process can be initiated.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements Below.

Subplan 1 Requirements: Foundations Track

Total Credits Required: 135

Course Requirements

Total Credits Required for the Doctor of Philosophy – Educational Psychology: 55

Proseminar Course – Credits: 1
- EPY 701 - Proseminar in Educational Psychology

Research Methods Courses – Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 723 - Psychometrics I
- EPY 733 - Multivariate Statistics
- EPY 787 - Individual Research

Additional Research Methods Course – Credits: 3

Complete one of the following courses:
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 724 - Psychometrics II
- EPY 733 - Multivariate Statistics
- EPY 787 - Individual Research
• EPY 730 - Advanced Research Methods

Learning Theory Courses – Credits: 9
• EPY 757 - Theory and Philosophy of Educational Psychology
• EPY 767 - Human Learning and Cognition
• EPY 777 - Cognitive Development

Specialization Courses – Credits: 18
Complete 18 credits of advisor-approved coursework within your specified area of focus.

Dissertation – Credits: 12
• EPY 799 - Dissertation

Total Credits Required for the Juris Doctor: 80
Required Courses – Credits: 44
Directed Electives – Credits: 9
Free Electives – Credits: 27

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements
1. Students must be admitted to both the J.D. and Ph.D. programs with graduate standing. The candidates must successfully complete the 80 credit hours of Law course work and 55 credit hours of the Ph.D. required course work.
2. William S. Boyd School of Law cannot award credit for any class taken before matriculation. J.D./Ph.D. candidates are required to enroll at the Boyd School of Law and complete one year of study before taking any Ph.D. courses.
3. Students in the J.D./Ph.D. program must remain in good standing in both J.D. and Ph.D. programs.
4. Students must maintain a grade point average of 3.00 or better in the program and a grade of B or better in core course work.
5. Of the 55 credits, 18 must be in coursework tailored for the area of focus in the strand.
6. Of the 55 credits, 25 are in courses shared with other doctoral programs in the department.
7. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members and one law school representative. In addition, a fifth member from outside the department, known as the Graduate College Representative, must be appointed. The Dual Degree Program Coordinator will sit on all dissertation committees. Please see Graduate College policy for committee appointment guidelines.
8. Specific specialization courses in the assessment, program evaluation, research, and learning in school domains strands are determined by the student in consultation with her or his committee.

9. In addition to the required specialization courses, each student, in consultation with advisor and doctoral committee, selects an individual emphasis area and determines the specific courses to be completed.

10. Each student must satisfy a scholarly paper requirement by the time he or she has completed 36 credits (Review I). The student must be primarily responsible for carrying out and reporting a study under the supervision of a program faculty member. The requirement may be fulfilled in one of two ways. First, the study may involve the collection and analysis of some empirical data (for example, a pilot study) resulting in a scholarly paper that is submitted to either a professional journal or as a proposal to an annual conference of a national organization. Second, the paper may consist of a literature review that is submitted for publication in a quality, peer-reviewed journal or submitted for presentation at a national conference. Prior to beginning, projects must be approved by a supervising faculty member. Once completed, students must submit to the program coordinator(s): (a) a copy of the paper, (b) a submission acknowledgment, and (c) a completed Review I form from the supervising faculty member.

11. Each student must take the preliminary examination (Review II). This second formal assessment, typically completed during the last semester of formal classwork, is an examination that will focus on areas of knowledge that are most relevant to the student's proposed dissertation topic. The student and his/her committee will determine the content of this examination format in that it will focus on in-depth reading and writing directly related to the student's proposed dissertation topic as well as on the student's mastery of previously learned core information.

12. After successfully completing Review I (i.e., satisfying the scholarly product requirement) and Review II (i.e., passing the preliminary examination), students can then submit a formal dissertation proposal to their doctoral committee and submit the accompanying “Dissertation Prospectus” form to the Graduate College. The doctoral committee will meet and determine whether to accept or reject the prospectus. A prospectus can be accepted provisionally given that the student follows the committee's suggestions in the dissertation. Upon completion of the full dissertation, a defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College's policies for thesis and dissertation completion. It is the student's responsibility to file the required "Notification of Oral or Written Examination" form with the Graduate College in a timely manner.

Plan Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

3. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

4. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Dual Degree: Doctor of Philosophy - Higher Education & Juris Doctor

Plan Description

The Higher Education Program in coordination with the UNLV Boyd School of law offers a dual J.D./Ph.D. degree. The Doctor of Philosophy – Higher Education is grounded in the concept that successful higher educational leaders must be well-informed and context sensitive professionals who make theory based, research supported, and data driven decisions.

The primary objectives of the program are to:
1. Prepare students for administrative positions in community colleges, four year colleges, universities, and other public and private learning and policy environments; 2. Prepare individuals for faculty positions in higher education; and 3. Assist doctoral students in the development of skills in assessment and evaluation, research design, and quantitative and qualitative methodologies appropriate for leadership roles as faculty or administrators in higher and postsecondary education.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the J.D./Ph.D. program must submit formal applications for admission to both the William S. Boyd School of Law and to the Graduate College. Students must meet the requirements for admission to both programs. Admission requirements are the same as those stated under the regular J.D. and Higher Education Ph.D. programs. Current application deadlines are posted on the website.
A dual program candidate must complete the Graduate College, Law School and Higher Education Program admission processes in order to matriculate. Successful completion of the first year of law school is a precondition to commencement of work on the Ph.D. program and waives the Master's Degree prerequisite for entry to the program. A law school student may be admitted to the dual program by gaining admission to the Higher Education Ph.D. program after successful completion of the first year of law school with the consent of both programs.

Under the terms and conditions of the program the Law School has agreed to accept 9 credits of course work from the Higher Education Program toward the J.D. degree. The Higher Education Ph.D. Program has agreed to accept 18 credits of course work from the Law School toward the Ph.D. degree.

Students interested in the dual program should alert Graduate College admission personnel when commencing the admission process. Students interested in the Dual Degree Program should alert the Higher Education Ph.D. Admissions Coordinator so that consultation on the admissions process can be initiated.

Students can elect to specialize in any of three emphasis areas: higher education leadership, including university and community college leadership; higher education policy and planning; and student affairs leadership.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 134

**Course Requirements**

Total Credits Required for the Doctor of Philosophy – Higher Education: 54

**Required Core Courses – Credits: 15**

- EDH 703 - History of American Higher Education
- EDH 710 - Finance and Budgeting in Higher Education
- EDH 715 - Theory of Educational Organizations
- EDH 738 - Public Policy in Higher and Post-Secondary Education
- EDH 705 - HE Law-Doctoral
  OR
- EDH 742 - Academic Governance in Higher Education

**Required Research Courses – Credits: 12**

- EDH 707 - Designing & Critiquing Research In Education
- EPY 716 - Evaluation Research Methods
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 718 - Qualitative Research Methodologies

**Research Elective Courses – Credits: 3**

Select one of the following courses in consultation with your program of study chair.

- EPY 719 - Advanced Qualitative Research
- EPY 729 - Qualitative Case Study Research
- EPY 732 - Multiple Regression
- EPY 733 - Multivariate Statistics

**Specialization Courses – Credits: 9**

Complete 9 credits from the following courses in consultation with your program of study chair.

- EDH 607 - Leadership Development Seminar
- EDH 609 - Leading Diverse Organizations
- EDH 618 - Facilities Management and Campus Planning
- EDH 624 - Readings in Student Personnel Issues
- EDH 706 - Current Issues in Higher Ed
- EDH 708 - The American Community College
- EDH 719 - Institutional Advancement
- EDH 732 - Readings in Administration of Higher Education
- EDH 733 - The Professorate
- EDH 737 - Ethical Dimensions of Higher Education Leadership
- EDH 739 - Organization Change & Innovation in Higher Education
- EDH 740 - Comparative and International Higher Education
- EDH 742 - Academic Governance in Higher Education
- EDH 745 - Institutional Planning in Higher Education
- EDH 750 - Special Topics in Higher Education
- EDH 780 - Seminar: Teaching in Higher Education
- EDH 791 - Doctoral Independent Study

**Prospectus Course – Credits: 3**

- EDH 796 - Dissertation Proposal Preparation
Dissertation – Credits: 12
  •  EDH 799 - Dissertation

Total Credits Required for the Juris Doctor: 80
Required Courses – Credits: 44
Directed Electives – Credits: 9
Free Electives – Credits: 27

Degree Requirements

1. Students must be admitted to both the J.D. and Ph.D. programs with graduate standing. The candidates must successfully complete the 80 credit hours of Law course work and 54 credit hours of the Ph.D. required course work.

2. William S. Boyd School of Law cannot award credit for any class taken before matriculation. J.D./Ph.D. candidates are required to enroll at the Boyd School of Law and complete one year of study before taking any Ph.D. courses.

3. Students without a background in statistics may take EPY 721 Descriptive/Inferential Statistics, but the course will not count as credits toward the doctoral program.

4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members and one law school representative. In addition, a fifth member from outside the department, known as the Graduate College Representative, must be appointed. The Dual Degree Program Coordinator will sit on all dissertation committees. Please see Graduate College policy for committee appointment guidelines.

5. Students in the J.D./Ph.D. program must remain in good standing in both J.D. and Ph.D. programs.

6. The doctoral comprehensive examination consists of two parts: A core examination and an individualized examination. Part I: Core examination:

   1. The core examination is offered twice a year (usually September and February). Students should take this examination as early in their programs as possible. Students are eligible to the Comprehensive Examinations if they have passed all core courses with a “B-” or better. No student with anything less than a “B-” in any core course will be allowed to take the Comprehensive Examination. A core course may be repeated, allowing the student an opportunity to earn a “B-” or better.

   2. To be eligible to sit for this examination, students must have completed the required core courses, the required research courses, and the methodology course.

   3. Each section of the comprehensive examination is taken over a two week period.

4. Section One: Covers research design. It draws heavily on the research core courses. Students are encouraged to integrate information from other methods courses into their answers. Information about this question is provided to students prior to the examination.

5. Section Two: Affords student the opportunity to integrate basic historical, organizational, financial/economic, policy, and legal perspectives into a discussion of one or more current issues. Faculty members will meet with students prior to distributing this question to talk about specific, appropriate issues that may be addressed in this section of the exam.

6. The evaluation rubric is available for download from the department website. Students who do not pass a section of the comprehensive exams meet with their current advisor to discuss options and potential remedies.

7. The purpose of the individualized examination is to help students fill in gaps in their knowledge base and to help them move forward into the dissertation stage of the program.

7. All students are required to engage in an internship experience. Each internship is an individually designed, semester-long experience that can be repeated for credit for up to a maximum of 6 hours. Ordinarily, the internship is completed after the student has successfully passed the core comprehensive examination. There are three types of internships for doctoral students: Administrative, Teaching, and Research.

   1. Administrative internships enable students to apply theory to practice. Internship placements are available in a variety of professional settings including UNLV, the Community College of Southern Nevada, Nevada State College, the Nevada System of Higher Education administrative departments, as well as in neighboring institutions of higher education and government policy and business environments. These are challenging experiences in which students are expected to make meaningful contributions that advance the goals of the host site.

   2. Teaching internships are done under the aegis of a faculty member. Doctoral teaching assistants may team with a faculty member in a Master’s course or teach undergraduate courses.

   3. Research internships are usually done with the student’s doctoral chair. These internships allow students to team with a faculty member on a research-based project, which may entail design, data collection, analysis, or writing.
1. Students must complete the residency requirement. Residency requirements are met following the completion of 42 credit hours, the comprehensive examinations, and by completing these outcomes:
   1. Completion of remaining course work, including research courses and electives.
   2. Combination of doctoral internships and/or independent studies, as advised by student's doctoral advisor.
   4. Completion of a national presentation and/or a manuscript submitted for publication consideration.

   Students may use three credits of dissertation hours (EDH 799) towards their residency.

   Residency requirements must be fulfilled prior to the dissertation proposal defense. Students must review an outcomes checklist with their advisors prior to the proposal defense to verify completion of residency. Upon completion of residency students should have 9 to 12 dissertation credits remaining in the program of study.

---

Dual Degree: Doctor of Philosophy - Special Education & Juris Doctor

Plan Description

The Doctor of Philosophy Degree (Ph.D.) is designed with an emphasis in the development of skills in scientific inquiry and leadership. Students enrolled in this study program gain an understanding of philosophy and theory as they relate to the conduct of research and program evaluation. Graduates pursue careers in schools, institutions of higher education, research centers and agencies that require the competencies developed through a Ph.D. course of study.

Pursued individually, the J.D. degree requires the completion of 89 credit hours and the Ph.D. degree requires the completion of a minimum of 72 credit hours. The J.D./Ph.D. degree would require the completion of 80 law credit hours and a minimum of 63 education credit hours, as 9 hours of education courses are accepted toward the J.D. degree and 9 hours of law courses are accepted toward the Ph.D. degree.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the J.D./Ph.D. program must submit formal applications for admission to both the William S. Boyd School of Law and to the Graduate College. Students must meet the requirements for admission to both programs. Admission requirements are the same as those stated under the regular J.D. and Special Education Ph.D. programs.

A dual program candidate must complete the Graduate College, Law School and Special Education Ph.D. admission processes in order to matriculate. Successful completion of the first year of law school is a precondition to commencement of work on the Ph.D. program. A law school student may be admitted to the dual program by gaining admission to the Special Education Ph.D. program after successful completion of the first year of law school with the consent of both programs.

Students interested in the dual program should alert Graduate College admission personnel when commencing the admission process. Students interested in the Dual Degree Program should alert the Special Education Ph.D. Admissions Coordinator so that consultation on the admissions process can be initiated.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
Total Credits Required: 143

Course Requirements
Total Credits Required for the Doctor of Philosophy – Special Education: 63

Required Courses – Credits: 21
- ESP 782R - Professional Seminar in Special Education
- ESP 783R - Leadership Seminar in Special Education
- ESP 784 - Seminar in Advanced Special Education Technology
- ESP 785 - Issues, Trends and Futures in Special Education
- ESP 787 - Philosophical Perspectives in Special Education
- ESP 788 - Single Subject Methods in Special Education
- ESP 789 - Grant Writing for Human Services

Research Courses – Credits: 6
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- ESP 791 - Proposal Design and Analysis

Statistics Course – Credits: 3
Complete one of the following courses, or another advisor-approved equivalent course.
- EPY 722 - Inferential Statistics and Experimental Design
- KIN 751 - Selected Application of Statistical Techniques I

Additional Research Courses – Credits: 6
Complete 6 credits from the following list of courses, or other advisor-approved courses.
- EPY 716 - Evaluation Research Methods
- EPY 718 - Qualitative Research Methodologies
- EPY 733 - Multivariate Statistics
- KIN 752 - Selected Application of Statistical Techniques II

Internship Course – Credits: 6
- ESP 794 - Internship in Special Education

Leadership & Exceptionality Courses – Credits: 6
Complete 6 credits of advisor-approved leadership and exceptionality courses from one or more of the following leadership concentrations: Parenting, Administration, Research, Diagnosis/Assessment, Transition, Early Childhood Special Education, Early Childhood Education, Higher Education, Technology, Consultation, or Curriculum.

Complete credits in specialty areas from the following list: Autism, Learning Disabilities, Emotional Disturbance, Mental Retardation, Gifted and Talented Education, Developmental Disabilities/Children at Risk.

Prospectus Course – Credits: 3
Complete the following course as an independent study supervised by the advisor.
- ESP 796 - Dissertation Prospectus

Dissertation – Credits: 12
- ESP 799 - Dissertation

Total Credits Required for the Juris Doctor: 80
Required Courses – Credits: 44
Directed Electives – Credits: 9
Free Electives – Credits: 27

Degree Requirements
1. Students must be admitted to both the J.D. and Ph.D. programs with graduate standing. The candidates must successfully complete the 80 credit hours of Law course work and 63 credit hours of the Ph.D. required course work.

2. William S. Boyd School of Law cannot award credit for any class taken before matriculation. J.D./Ph.D. candidates are required to enroll at the Boyd School of Law and complete one year of study before taking any Ph.D. courses.

3. The Ph.D. program of study requires a minimum of 63 semester hours. Only credits that meet the following criteria may be included on the formal Program of Study:
   1. Those not previously used to fulfill requirements for another degree;
   2. Those taken while enrolled at an accredited graduate degree-granting institution in a degree-granting program;
   3. Those taken as a non-degree seeking student (not to exceed 15 total semester hours); and
   4. Those for which a grade of B or higher was earned.

4. Students in the J.D./Ph.D. program must remain in good standing in both J.D. and Ph.D. programs.

5. Doctoral students must earn a grade of B or higher in all core curriculum courses.

6. Doctoral Students must earn a grade of B or higher in EPY 721 and EPY 722/KIN 751.
7. Doctoral students are required to spend a minimum of two consecutive semesters (Fall-Spring, Spring-Summer or Summer-Fall) in full-time resident study in the Department of Early Childhood, Multilingual, and Special Education. Full-time resident study is defined as being enrolled in at least nine semester hours of graduate level course work from an approved Program of Study (six semester hours if the student is a graduate assistant). In cases where residency includes a semester of course work prior to submission of the Program of Study, the advisor must approve residency. Work during residency is allowed. However, if the student is employed as a graduate assistant, any additional work beyond that performed as an assistant must conform to the rules of the University and Graduate College.

8. Two-thirds of the total semester hours included on the formal Program of Study (not including dissertation) must be taken at UNLV. Faculty members of the Department of Early Childhood, Multilingual, and Special Education instructing specialist’s and/ or master's classes initiate an interaction with doctoral students enrolled in these courses regarding the appropriateness of both the content and performance requirements for doctoral students. Students not admitted to the doctoral program in Early Childhood, Multilingual, and Special Education (or to another doctoral program in the College of Education) may enroll in: ESP 782 - Professional Seminar in Special Education (formerly ESP 760) and two additional Core Curriculum Courses with consent of instructor prior to formal admission.

9. The Early Childhood, Multilingual, and Special Education Doctoral Colloquium typically is held one Friday each semester. The Doctoral Coordinator coordinates these meetings with the assistance of the special education faculty and doctoral students.

10. The comprehensive examination is taken during the semester immediately preceding enrollment in ESP 799 Dissertation. The comprehensive examination consists of 16 hours of written examinations with eight hours structured by the student’s major advisor and eight hours structured by the other internal committee members. The examinations are scheduled on two successive Fridays. The student's advisor determines the specific dates of the examination. The questions on the comprehensive examination address elements of the Core, Research, Leadership Studies, Exceptionality Specialties, and any course work taken for licensure or endorsements. The student's Doctoral Studies Committee provides general parameters from which questions are selected. “Take-home” examinations, in whole or in part, are not allowed. Students may use college provided technology for word-processing. Grading consists of three categories: Pass, Fail, and Pass with Distinction. Pass with Distinction occurs contingent upon a unanimous vote of the committee excluding the Graduate College representative. Students who fail the comprehensive examination will be placed on probation and must wait 4 months from the date of the failed examination to re-write their exam. However, under no circumstances may the reexamination be later than the semester following the failed examination. Students not passing the comprehensive examination on the re-write will be “excused” from the program.

11. Upon successful completion of comprehensive examination, the student selects a dissertation committee (i.e., minimum of three faculty members from the Department of Early Childhood, Multilingual, and Special Education, one law school faculty member, and an outside member appointed by the Graduate College) and submits a dissertation proposal to the committee. This proposal includes an introduction, review of the literature, and a discussion of study methods. The Dual Degree Program Coordinator will sit on all dissertation committees. Two weeks after this proposal is submitted to the dissertation committee, the committee meets with the student to accept or reject the proposal, as well as provide a critique of its relative strengths and weaknesses. Upon acceptance of the student’s dissertation proposal, a recommendation for advancement to candidacy is submitted to the Graduate College.

12. Upon completion of the full dissertation, a defense is scheduled. Students need to obtain The Guide to Preparing and Submitting a Thesis or Dissertation from the Graduate College web site.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Graduate Certificate in Chief Diversity Officer in Higher Education

Plan Description
The Graduate Certificate in Chief Diversity Officer in Higher Education (CDOHE) targets full- or part-time graduate students who seek professional preparation commensurate with the Standards of Professional Practice for Chief Diversity Officers (CDO) established by the National Association of Diversity Officers in Higher Education (NADOHE) in 2014. Hours earned in a degree program in either higher education or multicultural education cannot be used for the graduate certificate in CDOHE. The nature of the certificate allows students to tailor their course work based on their professional goals.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Qualified students must apply for admission to the Graduate College via the online application. All minimum Graduate College requirements MUST be met. Once accepted to UNLV, students must also complete and submit the Graduate Certificate in CDOHE application materials.

Graduate degree-seeking students who are admitted to and pursuing degrees in other disciplines (outside higher education and multicultural education) are eligible to apply for the graduate certificate in CDOHE.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 18

Course Requirements
Required Courses – Credits: 9
Complete the following courses:
- CME 600 - Multicultural Education
- EDH 705 - HE Law-Doctoral
- EDH 742 - Academic Governance in Higher Education

Core Course – Credits: 3
Complete one of the following courses:
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum

Multicultural Education Elective Course – Credits: 3
Complete one of the following courses:
- CME 710 - Introduction to Cultural Studies in Education
- CIG 773 - Critical Literacies/Critical Pedagogies

Higher Education Elective Course – Credits: 3
Complete one of the following courses:
- EDH 727 - College Students in the United States
- EDH 714 - Understanding Minority Serving Institutions
- EDH 738 - Public Policy in Higher and Post-Secondary Education

Certificate Requirements
Accepted students must earn a B or better in all courses.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Graduate Certificate in College Sport Leadership

Plan Description
The Graduate Certificate in College Sport Leadership targets full or part-time graduate students who may not have studied intercollegiate athletic / college sport leadership (specific to higher education) through any formal degree program but wish to develop a deeper understanding of college sport leadership and career options available in the field of intercollegiate athletics. Current graduate students and administrative professionals who already possess an undergraduate degree and have an interest in intercollegiate athletics / college sport leadership, may benefit from this experience. Hours earned for the certificate may be applied to the degree program in Higher Education at the masters or doctoral levels upon formal admission to the program. Hours earned in the masters or doctorate programs in Higher Education may NOT be used toward the certificate.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.
Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

CERTIFICATE SEEKING

A qualified student, who wishes to enter UNLV to obtain the Graduate Certificate in College Sport Leadership without being enrolled in a degree program, may apply for graduate admission to the Graduate College via the Grad Rebel Gateway. All minimum Graduate College requirements MUST be met. Once accepted to UNLV, students must also complete and submit the Graduate Certificate in College Sport Leadership application.

DEGREE SEEKING

Doctoral and masters level students who are admitted to and pursuing other disciplines are eligible for the certificate program in college sport leadership. Students must complete and submit an application through the Grad Rebel Gateway along with the Graduate Certificate in College Sport Leadership application materials. Enrollment may be limited based on class size. Applications may be submitted at any time during an academic term. Accepted students can begin taking classes the term following acceptance.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 15

Course Requirements

Required Courses – Credits: 6

- EDH 603 - Introduction to College Sport
- EDH 606 - Intercollegiate Athletic Administration

Electives – Credits: 6

Complete a minimum of 6 credits from the following list of courses:

- EDH 604 - Management Communications
- EDH 607 - Leadership Development Seminar
- EDH 609 - Leading Diverse Organizations
- EDH 626 - College Student Personnel Services
- EDH 727 - College Students in the United States
- EDH 703 - History of American Higher Education
- EDH 711 - Marketing Higher Education and College Sport
- EDH 719 - Institutional Advancement

Internship Course – Credits: 3

- EDH 690 - Masters Internship

Certificate Requirements

1. Completion of a minimum of 15 credit hours, including 3 hours of internship in an intercollegiate athletic department as a culminating experience.
2. Students must earn a B or better in all courses.

Plan Certificate Completion Requirements

1. Certificates will be awarded upon the student’s successful completion of all certificate requirements.
2. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Higher Education

Plan Description

The graduate certificate in Higher Education targets full or part-time graduate students who may not have studied higher education through any formal degree program but wish to develop a deeper understanding of higher education. In particular doctoral students enrolled in other disciplines who plan to enter the academy as tenure track faculty members, as well as current administrative professionals who already possess a master’s degree and have evidence of a minimum of two years administrative or teaching experience (or equivalent) preferable but not required, may also benefit from this experience. Hours earned for the certificate may be applied to a degree program in higher education at the doctoral level. Hours earned in the masters or doctorate programs in higher education may NOT be used toward the certificate.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

A qualified student, who wishes to enter UNLV to obtain the graduate certificate in higher education without being enrolled in a degree program, may apply for graduate admission to the Graduate College via the Grad Rebel Gateway. All minimum Graduate College requirements MUST be met. Once accepted to UNLV, students must also complete and submit the Graduate Certificate in Higher Education application.

Doctoral level students who are admitted to and pursuing other disciplines are eligible for the certificate program in higher education. Students must complete and submit the Graduate Certificate in Higher Education application.

Enrollment may be limited based on class size. Students must earn a B or better in all courses. Certificates will be awarded upon the student’s successful completion of the certificate requirements. Application may be submitted at any time during an academic
Accepted students can begin taking classes the following term of acceptance.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 15

**Course Requirements**

Core – Credits: 12

Complete 12 hours from the following courses:

- EDH 607 - Leadership Development Seminar
- EDH 609 - Leading Diverse Organizations
- EDH 727 - College Students in the United States
- EDH 708 - The American Community College
- EDH 709 - Seminar in the Economics of Higher Education
- EDH 711 - Marketing Higher Education and College Sport
- EDH 714 - Understanding Minority Serving Institutions
- EDH 723 - Women in Higher Education
- EDH 730 - Institutional Assessment
- EDH 742 - Academic Governance in Higher Education
- EDH 750 - Special Topics in Higher Education

Electives Course – Credits: 3

Complete a minimum of 3 hours from the following courses:

- EDH 603 - Introduction to College Sport
- EDH 626 - College Student Personnel Services
- EDH 705 - HE Law-Doctoral
- EDH 710 - Finance and Budgeting in Higher Education
- EDH 750 - Special Topics in Higher Education
- EDH 780 - Seminar: Teaching in Higher Education

**Certificate Requirements**

The student must complete a minimum of 15 credit hours with a minimum GPA of 3.00.

**Plan Certificate Completion Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

---

**Graduate Certificate in Program Evaluation and Assessment**

**Plan Description**

The Graduate Certificate in Program Evaluation and Assessment targets both part-time and full-time graduate students who wish to develop specialized knowledge of the practice and application of evaluation in urban settings. This program is particularly relevant to individuals who may need to plan and conduct evaluations in their workplace. The 15-credit certificate program is geared toward those who need to produce evaluation and incorporate evaluation results into decision making and program planning. Hours earned for the certificate may be applied to a degree program in educational psychology or higher education at the masters or doctoral levels. Hours earned in the masters or doctorate programs in educational psychology or higher education may NOT be used toward the certificate.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

- Enrollment may be limited based on class size.
- Applications may be submitted at any time during an academic term. Accepted students can begin taking classes the following term of acceptance.

**NON-DEGREE-SEEKING**

- A qualified student, who wishes to enter UNLV to obtain the graduate certificate in Program Evaluation and Assessment without being enrolled in a degree program, may apply for graduate admission to the Graduate College via the Grad Rebel Gateway system. All minimum Graduate College requirements MUST be met. Once accepted to UNLV, students must also complete and submit the Graduate Certificate in Program Evaluation and Assessment application.

**DEGREE SEEKING**

- Doctoral and masters level students who are admitted to and pursuing other disciplines are eligible for the certificate program in Program Evaluation and Assessment. Students must complete and submit the Graduate Certificate in Program Evaluation and Assessment application.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
Total Credits: 15

Course Requirements

Methods Core - Credits: 6
- EPY 702 - Research Methods
  OR
- EDH 707 - Designing & Critiquing Research In Education
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
  OR
- EPY 718 - Qualitative Research Methodologies

Required Evaluation Core - Credits: 6
- EPY 716 - Evaluation Research Methods
- EPY 726 - Advanced Evaluation Research Methods

Electives - Credits: 3
Complete a minimum of 3 hours from the listed courses, or an elective approved by the program director.
- EPY 709 - Classroom Assessment
- EPY 710 - Survey Methods and Design
- EPY 723 - Psychometrics I
- EPY 729 - Qualitative Case Study Research
- EDH 714 - Understanding Minority Serving Institutions
- EDH 738 - Public Policy in Higher and Post-Secondary Education
- EDH 739 - Organization Change & Innovation in Higher Education

Certificate Requirements
Completion of 15 credit hours. No formal culminating experience.

Plan Certificate Completion Requirements
Students must earn a B or better in all courses. Certificates will be awarded upon the student’s successful completion of the certificate requirements.

Master of Education - Educational Policy and Leadership

Plan Description
The primary purpose of the Educational Policy and Leadership program is to prepare educational leaders for leadership and administrative roles in K-12 schools in response to 21st century challenges. Particular attention will be paid to engaging pre-service principal interns in community-building efforts with for-profit and non-profit businesses, social service agencies, and university entities. This program will encourage systematic research-based practices and evidence-based decision making, particularly focused on urban populations, and guided by state and national educational standards.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

1. An earned bachelor’s degree in an acceptable field of undergraduate study;
2. A GPA of at least 2.75 overall or 3.00 in the last 60 semester hours of undergraduate study;
3. At least 3 years of professional experience

Individuals seeking a Nevada endorsement as an administrator of a school must hold a valid elementary, middle school/junior high, or secondary or special teaching license.

In addition to the application and transcripts required by the Graduate College, applicants must submit the following documents to the program uploaded as part of the online application:

1. Score Report from Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT). GRE is preferred.
2. Two letters of recommendation (one must be from current principal or district supervisor).
3. A resume indicating educational and professional experience.
4. Leadership statement.
5. Summary of leadership experiences.
6. Statement of support from applicant’s current principal or district supervisor.
7. A valid elementary, middle school/junior high, or secondary or special teaching license.

All applicants will be interviewed as part of the application process.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 36

Course Requirements
Required Courses - Credits: 14
• EPL 720 - Introduction to Leadership and Organizations
• EPL 737 - Systematic Professional Development and Instructional Supervision
• EPL 751 - Educational Law & Policy: Student Issues
• EPL 753 - Human and Fiscal Resource Management
• EPL 755 - Law for Exceptional Students
• EPL 757 - Education Law and Public Policy: Teacher/Staff Evaluation
• EPL 758 - Financial Entrepreneurship & Educational Innovation

Research Core Courses – Credits: 6
• EPL 722 - Educational Research Methods
• EPL 735 - Leadership for School Improvement

Internship and Capstone Courses – Credits: 8
• EPL 742 - Leadership Field Experience
• EPL 780 - Capstone Seminar: Educational Leadership

Elective Courses – Credits: 8
• EPL 700 - Special Topics
• EPL 731 - Leadership in a Digital Age
• EPL 732 - School and Community Leadership
• EPL 740 - Educational Systems

Degree Requirements
1. Students must complete 36 credit hours of approved coursework:
2. Students will meet with an academic advisor and complete a formal degree plan.
3. Students must obtain a 3.0 GPA in order to graduate. A student can have no more than one grade less than B-.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a culminating project.

Master of Education - Higher Education

Plan Description
The Master of Education – Higher Education is designed to prepare graduates to serve in administrative capacities within the university, community college, and for-profit settings, with an emphasis on student affairs, intercollegiate athletics, and higher education organization.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

1. A bachelor's degree from an accredited college or university
2. A completed application and official copies of all college transcripts
3. Two letters of professional recommendation
4. Submission of an official copy of the Graduate Record Examination (GRE) taken within the last 5 years.
5. A minimum GPA of 2.75 for all undergraduate work or a 3.00 for the last two years of undergraduate work
6. Evidence of a minimum of two years satisfactory teaching or administrative experience (or equivalent) preferable but not required
7. Statement of Interest
8. Indication of interest in a graduate assistantship, when applicable

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 37

Course Requirements
Required Courses – Credits: 12
• EDH 607 - Leadership Development Seminar
• EDH 609 - Leading Diverse Organizations
• EDH 727 - College Students in the United States
• EDH 703 - History of American Higher Education
Core Research Course – Credits: 3
- EPY 702 - Research Methods

Additional Research Course – Credits: 3
Select one of the following:
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- EDH 730 - Institutional Assessment

Internship – Credits: 3
- EDH 690 - Masters Internship

Elective Courses - Credits: 15
Complete 15 credits of advisor-approved elective course work. Courses may be selected from but are not limited to, the following three emphasis areas.

Student Affairs Emphasis
- EDH 626 - College Student Personnel Services
- EDH 714 - Understanding Minority Serving Institutions
- EPY 711 - Human Growth and Development

Intercollegiate Athletics Emphasis
- EDH 603 - Introduction to College Sport
- EDH 606 - Intercollegiate Athletic Administration
- EDH 711 - Marketing Higher Education and College Sport

Administrative Leadership Emphasis
- EDH 708 - The American Community College
- EDH 742 - Academic Governance in Higher Education
- EDH 750 - Special Topics in Higher Education

Capstone Course – Credits: 1
- EDH 610 - Master’s Capstone Experience

Degree Requirements
1. The student must complete a minimum of 37 credit hours with a minimum GPA of 3.00.
2. All courses in the program must be at the 600-level or above, with 50% at the 700-level.
3. The Master of Education (M.Ed.) - Higher Education is a non-thesis program, which requires the successful completion of a capstone project taken during the final semester.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete the capstone course.

Master of Science - Educational Psychology

Plan Description
The Master of Science - Educational Psychology is appropriate for students seeking the core knowledge, research tools, and educational experiences necessary to succeed in various educational settings. The program is appropriate for elementary, secondary, and special education teachers who wish to enhance classroom skills; students interested in pursuing advanced studies in educational psychology; students interested in obtaining a specialist degree in school psychology; as well as students who plan to apply their skills in government or business settings. Students’ individualized programs are tailored with attention to their area of specialization.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Admission to graduate studies at UNLV requires a bachelor’s degree from an accredited four-year college or university with either a minimum grade point average of 2.75 overall or a 3.00 in the last two years of undergraduate work. Master's degree programs require that an application for admission be submitted to the Graduate College, as well as transcripts from all colleges and universities attended.

Admission to the Master of Science degree program in Educational Psychology is based on the following criteria:

1. Department application
2. Preference given to students whose scores relate to the 50th percentile or better on the verbal and quantitative sections of the Graduate Record Examination (GRE)
3. Three letters of recommendation
4. One writing sample
5. Transcripts from all colleges and universities attended
6. Graduate College application is available online

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track
Total Credits Required: 33
Course Requirements

Learning and Development Courses – Credits: 6
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Research Courses – Credits: 9
- EPY 702 - Research Methods
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- EPY 723 - Psychometrics I

Elective Courses – Credits: 12
Students must complete a minimum 12 credit hours of advisor-approved electives.

Thesis – Credits: 6
- EPY 749 - Thesis

Degree Requirements
1. A minimum of 33 credits is required for the degree. Students must maintain a grade point average of 3.00 or better in the program and a grade of B or better in core course work.
2. The culminating experience for the M.S. degree is the defense of the students' master's thesis.
3. Students who choose to complete a thesis will select a Graduate Faculty member to serve as chair. The chair and the student will select the other committee members. Each committee must have three members. Committee members must be named by the time the student submits their Program of Study to the Graduate College. The student must defend a thesis proposal before data to be used in the thesis are collected. The committee will meet and determine whether to accept or reject the proposal. A proposal can be accepted provisionally given that the student follows the committee's suggestions for revision. Upon completion of the thesis, an oral defense will be scheduled. This defense will be scheduled and conducted in accordance with the Graduate College's policies for thesis and dissertation completion.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track
Total Credits Required: 33

Course Requirements

Learning and Development Courses – Credits: 6
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Research Courses – Credits: 9
- EPY 702 - Research Methods
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- EPY 723 - Psychometrics I

Elective Courses – Credits: 15
Students must complete a minimum of 15 credit hours of electives.

Culminating Experience - Credits: 3
- EPY 748 - Capstone Seminar

Degree Requirements
1. A minimum of 33 credits is required for the degree. Students must maintain a grade point average of 3.00 or better in the program and a grade of B or better in core course work.
2. The culminating experience for the M.S. degree is the completion of a written comprehensive examination.
3. The comprehensive exam is comprised of questions reflective of the core areas (learning and development, research and measurement), and the specialty. All students who take the comprehensive exam in a given semester will respond to items from a set selected for that semester. In consultation with the Comprehensive Examination Evaluation Committee, the student’s adviser/committee chair will create an additional item to reflect the student's elective courses/specialty. A department Comprehensive Examination Evaluation Committee will evaluate the responses for each examinee. Each student's adviser/committee chair will also evaluate his/her student's responses to the selected items.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a culminating experience.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.
EPL 700 - Special Topics Credits 1-3
Topics related to current issues in educational leadership and policy. May be repeated with new content. Maximum credit 6 units. Notes: May be repeated with new content to a maximum of 6 credits.

EPL 705 - Independent Study Credits 1-3
Independent study of a topic in educational leadership and policy under the direction/supervision of a faculty member. Notes: May be repeated to a maximum of 6 credits. Prerequisites: Permission of instructor.

EPL 720 - Introduction to Leadership and Organizations Credits 3
Introduction to general theories of educational leadership and organizational systems.

EPL 722 - Educational Research Methods Credits 3
Introduction to research for school leaders, including an overview of quantitative and qualitative research methods. The role of research in organizational change and strategic planning will be emphasized. Specific applications of research in terms of school improvement and student achievement will be addressed.

EPL 731 - Leadership in a Digital Age Credits 3
The role of educational leaders in creating and sustaining systems and processes to align curriculum, instruction, and assessment with 21st century skills for college and career readiness, including the use of appropriate digital technologies to support learning and organizational goals.

EPL 732 - School and Community Leadership Credits 2
How to work effectively with diverse families and community members by assessing and responding to diverse community interests and needs; sharing leadership with stakeholders; motivating and mobilizing community resources; and examining relationships between schools and communities from demographic and political perspectives, all to promote student achievement.

EPL 735 - Leadership for School Improvement Credits 3
Application of evidence-based decision-making methods aimed at creating a culture of continuous school improvement including: 1) the collection, analysis, and interpretation of multiple measures, 2) the inter-relationships between evidence-based interventions and educational outcomes, 3) commonly used analytic strategies and processes, and (4) a step-by-step approach to evidence-based decisions.

EPL 737 - Systematic Professional Development and Instructional Supervision Credits 3
The practice of teacher supervision with emphases on instructional leadership and professional development. The course addresses coaching, adult learning, and distributive leadership to support the culture of learning and equity in the organization.

EPL 740 - Educational Systems Credits 1
Seminar emphasizing the development of systems to guide instructional supervision through the use of research-based instructional frameworks.

EPL 742 - Leadership Field Experience Credits 3
Supervised field experience in PK-12 schools. Notes: May be repeated to a maximum of 6 credits. Prerequisites: Permission of program.

EPL 751 - Educational Law & Policy: Student Issues Credits 1
Applicable federal, state, and local requirements and public policy related to student rights and responsibilities through case studies intended to develop the student's capacity to create a safe and productive school culture. Emphasis is placed on legal protections and due process relative to student discipline issues.

EPL 753 - Human and Fiscal Resource Management Credits 2
The management of fiscal and human resources in PK-12 schools in order to achieve greater student performance. Case studies and simulations will be employed to develop the necessary resource management knowledge and skills.

EPL 755 - Law for Exceptional Students Credits 1
Seminar addressing applicable federal, state, and local requirements and public policy for providing services to exceptional at-risk student populations through study of contemporary case law, case study analysis, and evidence-based program design and supervision.

EPL 757 - Education Law and Public Policy: Teacher/Staff Evaluation Credits 1
Introduction of applicable federal, state, and local requirements and public policy for high stakes assessment of teachers emphasizing continuous improvement through carefully designed personnel supervision and evaluation. Contract management, employee discipline and recognition, and procedural expectations for insuring fairness and equity will be addressed.

EPL 758 - Financial Entrepreneurship & Educational Innovation Credits 3
Exploration of educational leaders' roles as entrepreneurs within existing organizational structures as well as how educational leaders can develop partnerships with various community, government, and business entities to augment financial and human resources toward increasing student learning.

EPL 780 - Capstone Seminar: Educational Leadership Credits 2
The capstone seminar provides students with the opportunity to synthesize core and major coursework completed during the program of graduate study culminating in a portfolio or poster presentation demonstrating competencies in educational leadership as evidenced by field-based experiences. Prerequisites: Permission of program.

EPY 690 - Introduction to the Learning Sciences Credits 3
The learning sciences are concerned with designing effective learning innovations and environments. Field is rooted in educational psychology, cognitive science, anthropology, applied linguistics, educational technology, and computer science. Course surveys major aspects of the learning sciences, including research methodologies, learning technologies, collaborative learning, disciplinary learning, teacher learning, policy design. Notes: This course is crosslisted with EPY 490. Credit at the 600-level requires additional work.

EPY 699 - Special Topics
Specialized instruction in counseling and human development services concerned with specific problem areas or specific approaches to counseling and delivery systems. Specific topics designed to help students develop in-depth understanding of particular topic or issue. Notes: This course is crosslisted with EPY 499. Credit at the 600 level requires additional work.

EPY 701 - Proseminar in Educational Psychology Credits 1 – 2
Introduction to graduate studies in educational psychology. Topics may include, but are not limited to: teaching apprenticeship, professional organizations, creating a vita, evaluation and assessment, institutional review board training, peer review process, use of PsychInfo and other topics relevant to graduate studies. Notes: May be repeated to a maximum of two credits. Prerequisites: EPY 702 (may be taken concurrently) or equivalent.

EPY 702 - Research Methods Credits 3
Early entry graduate-level survey of research methods with emphasis on comprehension of educational research literature. Includes scientific method, locating and summarizing published research, sampling, measurement, statistics, research design, and critique of published research.

EPY 703 - Teachers as Producers and Consumers of Educational Research Credits 3
Entry graduate-level survey of research methods with a dual emphasis on 1) comprehension of educational research literature (teachers as consumers of educational research) and 2) designing and conducting classroom-based research (teachers as producers of educational research).
EPY 707 - Adolescent Development Credits 3
Examines physical, cognitive, social, and moral development of adolescents. Theories of identity development, including ethnic identity development, and their applications to counseling, education, and curriculum development discussed. Social relations, aspects of sexuality, and special problems/issues of adolescence.

EPY 708 - Human Learning and Development Credits 3
Graduate-level introduction to basic concepts in educational psychology with emphasis on development, learning, and motivation. Prerequisites: Undergraduate degree not in behavioral science or consent of instructor.

EPY 709 - Classroom Assessment Credits 3
Compares and contrasts traditional and alternative assessment procedures including factors such as: philosophical basis, purposes, roles of teacher, student and administrators, interpreting and reporting results, and strengths and limitations. The role of assessment in promoting learning also discussed. Prerequisites: EPY 707 or EPY 708 (may be concurrent) or consent of instructor.

EPY 710 - Survey Methods and Design Credits 3
Systematic analysis of survey design and research conducted using survey techniques with emphasis on how to effectively plan and conduct mail, electronic, and other self-administered. Prerequisites: EPY 702 or consent of instructor.

EPY 711 - Human Growth and Development Credits 3
Emphasis on implications of human growth and life-span development (childhood through adulthood) for counseling, research and instruction. Topics include prenatal development and birth, death and dying, and physical, perceptual, cognitive, moral, personality, and language development.

EPY 712 - Foundations of Learning and Cognition Credits 3
Systematic analysis of concepts and principles of human learning with emphasis on their application to instruction and counseling. Topics include classical and operant conditioning, information-processing and memory, the neurophysiology of learning, and personality and social factors in learning.

EPY 716 - Evaluation Research Methods Credits 3
Addresses the definition and purposes of evaluation research including its potential uses and limitations. Examines models of evaluation research and their application in a variety of settings. Notes: Students are strongly encouraged to complete EPY 711 prior to enrolling in this course. Prerequisites: EPY 702 or EDH 707; EPY 721

EPY 717 - Analysis of Applied Learning Principles and Educational Media Credits 3
Introduction to the processes and products of educational media development/selection through the study of contributions, evaluation criteria, and production requirements essential for optimal learning situations. Includes practice in applying learning principles to educational media.

EPY 718 - Qualitative Research Methodologies Credits 3
Qualitative approaches to exploring phenomena related to educational and other social contexts. Attention given to theoretical and practical considerations of case studies, ethnographies, participant observation and narrative reports; discussion of criteria for establishing goodness of qualitative studies. Notes: Field work using qualitative methods required. Prerequisites: EPY 702

EPY 719 - Advanced Qualitative Research Credits 3
Qualitative approaches to exploring phenomena related to educational and other social contexts. Analysis of data and presentation of findings. Specific emphasis on analysis of discourses from participant observation and/or interview data. Notes: Field work using qualitative methods may be required. Prerequisites: EPY 702 and EPY 718

EPY 721 - Descriptive and Inferential Statistics: An Introduction Credits 3
Descriptive indices of central location and dispersion, correlation and regression, hypothesis testing and basic inferential techniques. Emphasis on intuitive understanding and applications in educational/behavioral measurement and research.

EPY 722 - Inferential Statistics and Experimental Design Credits 3
Intermediate-level coverage of inferential statistics and experimental design analysis covering commonly used techniques in educational and behavioral research with computer applications. Prerequisites: EPY 721

EPY 723 - Psychometrics I Credits 3
Introduction to psychometric theory and applications to educational measurement problems. Topics include classical test theory, reliability indices, validation processes, threats to psychometric quality, generalizability theory, and a brief introduction to item response theory and Rasch models. Prerequisites: EPY 721 (EPY 721 may be taken concurrently).

EPY 724 - Psychometrics II Credits 3
Theoretical foundations and practice of item response theory (IRT) in educational and psychological measurement. Topics include one, two, and three parameter IRT models, polytomous IRT models, parameter estimation, models for multidimensional data, linking and equating, and differential item functioning. Prerequisites: EPY 721, EPY 722, EPY 723 (EPY 722 may be taken concurrently).

EPY 726 - Advanced Evaluation Research Methods Credits 3
Addresses application of evaluation research theory and methods through a project-based curriculum in order to provide in-depth examination of essential elements of the evaluation process. Prerequisites: EPY 716

EPY 728 - Applied Classroom Research Credits 3
Provides students with basic knowledge and skills necessary to conduct research within a classroom. Introduces elements required to begin and conduct an action research project, including purpose/rationale, literature review, data collection, analysis and interpretation, and communicating results. Prerequisites: EPY 702 or EPY 703 and EPY 718

EPY 729 - Qualitative Case Study Research Credits 3
Focuses on case studies within education. Students conduct in-depth, naturalistic case studies in educational settings to learn about theory, methodology, and methodological issues relevant to disciplined qualitative case study. Conducting interviews, data collection, coding, and analysis in a qualitative case study design. Prerequisites: EPY 702 and EPY 718

EPY 730 - Advanced Research Methods Credits 3
Research design principles and practices across quantitative, qualitative, and mixed methods approaches. Topics include developing research questions, identifying empirical foci, establishing a theoretical framework, choosing a methodological design, sampling, and evaluating rigor of research inferences. Prerequisites: EPY 702, EPY 721 and EPY 722.

EPY 731 - Mixed Methods Research Credits 3
This seminar provides an overview and introduction to mixed methods research designs including paradigmatic, practical, and methodological issues associated with the use of mixed methods in educational research. Prerequisites: EPY 702, EPY 718, and EPY 721. Or permission of instructor.

EPY 732 - Multiple Regression Credits 3
Intermediate-level statistics course including regression models under a general linear modeling framework. Topics include multiple regression/correlation, including simultaneous, sequential, and stepwise regression procedures, regression with contiguity and categorical predictors, and regression with interactions and polynomials. Prerequisites: EPY 722
EPY 733 - Multivariate Statistics Credits 3
Advanced-level statistics including commonly used multivariate statistical procedures in educational and behavioral inquiries with computer applications. Prerequisites: EPY 722, EPY 730 (EPY 730 may be taken concurrently).

EPY 734 - Structural Equation Modeling Credits 3
Advanced-level statistics course covering the concepts, statistical theory, and practices of structural equation modeling (SEM). Focus on cross-sectional, single and multiple population models, including path analysis models, confirmatory factor analysis models, and general SEM models for continuous and non-normal outcomes with and without missing data. Prerequisites: EPY 721, EPY 732

EPY 738 - Discourse Analysis Credits 3
Qualitative approaches to text and discourse analysis from different theoretical perspectives will be contrasted. Data from various textual and discourse oriented sources including narratives, audio and/or video tapes, and written artifacts analyzed in depth through hands-on projects. May include use of software programs specific to qualitative data analysis. Prerequisites: EPY 702 or EPY 703 and EPY 718, or equivalent.

EPY 742 - Language Diversity, Educational Policy & Equity Credits 3
The course surveys language equity in the context of educational policies. Coursework surveys the challenges of developing and implementing equitable policies to address the learning needs of students from diverse linguistic backgrounds.

EPY 745 - Categorical/Nonparametric Data Analysis Credits 3
Introduction to categorical/nonparametric data analysis, for use in small samples or when cases consist of categories or ranks. Topics include contingency tables (including loglinear models), nonparametric tests for ordinal and interval data, logistic and Poisson regression. Notes: Project involving analysis of the student's own research data may be required. Prerequisites: EPY 721, EPY 722

EPY 746 - Multilevel Statistical Models: Theory and Application Credits 3
Intermediate-level coverage of linear and non-linear multilevel statistical models. Includes coverage of status and growth models. Emphasis on intuitive understanding and practical application. Prerequisites: EPY 721, EPY 722, and EPY 732

EPY 748 - Capstone Seminar Credits 3
A final seminar for students who have selected the comprehensive examination as the culminating experience. Students will prepare for and complete the comprehensive examination in this seminar. Notes: May be repeated to a maximum of 6 credits. Prerequisites: Completion of 28 of 34 credits required for EPY MS.

EPY 749 - Thesis Credits 3 – 6
Professional paper preparation, including review of literature or similar research effort. Notes: May be repeated but only six credits applied to the student's program. Grading: S/F grading only. Prerequisites: EPY 702

EPY 751 - Motivation Theories and Applications in Education Credits 3
Dominant motivational theories in education and focuses on motivational processes associated with human learning. Role of social context in motivational development and predictors and outcomes of motivational constructs. Prerequisites: EPY 702 and EPY 721

EPY 752 - Self-Regulated Learning, Metacognition, and Motivation Credits 3
Theories of self-regulated learning with a focus on cognitive, metacognitive, and motivational processes, their interactions, and their measurement in classroom- and technology-enhanced contexts. Theoretical expertise and knowledge of research examining SRL across ages, domains, and instructional contexts. Prerequisites: EPY 702 or EDH 707, and EPY 721

EPY 757 - Theory and Philosophy of Educational Psychology Credits 3
Evolution of psychological learning theories, from their philosophical foundations to the present. Central issues include how psychological constructs such as the mind, knowledge representation, and attention impact learning and changes in our understanding of the nature of these constructs over time. Prerequisites: Doctoral Standing.

EPY 767 - Human Learning and Cognition Credits 3
Components of human memory and how these components affect learning. Emphasis placed on recent research and theory in working memory and long-term storage. Instructional implications of recent research discussed, especially with respect to skill acquisition, development of expertise, and cognitive strategy instruction. Prerequisites: Graduate standing.

EPY 768 - Problem Solving and Reasoning Credits 3
Acquisition of reasoning and problem solving expertise. Emphasis on information-processing models, critical thinking, creativity, rational decision making skills, reasoning biases, scientific and probabilistic reasoning, and evaluation of the extent people are capable of rational thinking and discussion. Prerequisites: Graduate standing.

EPY 770 - Cognition and Instruction Credits 3
Examines research in the application of cognitive learning principles to instruction in specific domains, particularly reading, writing, mathematics, and science. Research on technological applications especially emphasized. Readings include both foundational and current research. Prerequisites: Graduate standing.

EPY 772 - Contemporary Philosophies of Education Credits 3
Intensive critical analysis of leading contemporary philosophies of education and their possible implications for practice.

EPY 777 - Cognitive Development Credits 3
Overview of major theories, issues, and research in cognitive development. Primary emphasis on development of thinking and learning from childhood through adulthood. Prerequisites: Graduate standing.

EPY 780 - Individual Instruction Credits 1 – 12
Selected basic problems related to the field of counseling services. a) Testing. b) Curriculum. c) Supervision. d) Counseling. e) Area Problems. f) Research. Notes: May be repeated to a maximum of 12 credits.

EPY 781 - Research in Educational Psychology Credits 3
Individual research projects in educational psychology under the direction of a faculty member. Notes: May be repeated to a maximum of 12 credits. Prerequisites: EPY 702, EPY 721, EPY 722

EPY 782 - Independent Study Credits 3
Independent study of a selected topic in educational psychology under the direction/supervision of a faculty member. Notes: May be repeated to a maximum of 12 credits.

EPY 783 - Directed Readings in Educational Psychology Credits 3
In-depth study of a topic through selected readings under the direction of a faculty member. Notes: May be repeated to a maximum of six credits. Prerequisites: EPY 767

EPY 784 - Teaching Practicum Credits 3
Individual study under the direction of a faculty member focusing on preparing to teach at the college level. Prerequisites: EPY 723 or EPY 767 and consent of instructor.

EPY 786 - Applied Assessment in Educational and School Psychology Credits 1 – 4
Application of assessment approaches used for the evaluation of students in school settings. Notes: May be repeated to a maximum of four credits.
EPY 787 - Individual Research Credits 1 – 7
Selected basic problems in personnel services. Prerequisites: EPY 702

EPY 788 - Seminar in EPY Credits 1 – 6
Selected topics in counseling and human development services. a) Principles and practices. b) Individual analysis. c) Occupational information. d) Placement. e) Follow-up evaluation. f) Research. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

EPY 789 - Seminar in Learning and Cognition Credits 3 – 12
Selected topics in learning and cognition. Exploration of a specific aspect of learning and cognition. Topics may include, but are not limited to: memory, learning theory, motivation, text processing, individual differences, epistemological beliefs. Prerequisites: EPY 767 or consent of instructor.

EPY 791 - Special Topics in Educational Psychology Credits 3
In-depth study of special topics in educational psychology stressing the exploration of cutting-edge research on the topic. Topics may include, but are not limited to: false memory, goal theory, self-regulated learning, web-based data collection, discourse analysis. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Consent of instructor.

EPY 793 - Advanced Doctoral Practicum Credits 3 – 6
Advanced practice supervised experience for doctoral students in school psychology and counseling. Notes: May be repeated to a total of six credits. Prerequisites: Consent of instructor.

EPY 794 - Internship Credits 3 – 6
Final activity intended to provide on-the-job experience in developing related competencies. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

EPY 799 - Dissertation Credits 3–24
Culminating experience that may be: a) traditional, original research, b) field oriented and problem solving, or c) exploratory or generative research. Limited to doctoral candidates. 3-24 credits in increments of three. Notes: May be repeated but only a maximum of 24 credits may be applied towards degree. Grading: S/F grading only.

EPP 710 - Assessment of Intelligence by School Psychologists Credits 3
Theory and practice in the use of assessment measures for evaluating intellectual abilities of children, youth, and adults. Prerequisites: Admission to program or consent of instructor.

EPP 715 - Projective, Personality, and Behavioral Assessment by School Psychologists Credits 3
Assessment devices used by school psychologist to evaluate student's emotional and behavioral status. Prerequisites: Admission to program or consent of instructor.

EPP 723 - Diagnostic and Prescriptive Strategies: Psychopathology Credits 3
Designed to explore variables and intervention strategies with emphasis on assessment-based interventions and focus on brief counseling theories and techniques for school psychologists and other school-based practitioners. Formerly (EPC 723) Prerequisites: Admission to doctoral program or consent of instructor.

EPP 730 - Consultation Theory & Skills
An overview of the foundations of collaboration models, research-based interventions, and skills for use in culturally diverse schools and communities.

EPP 735 - Evidence Based Interventions to Promote Mental Health
Empirically supported counseling interventions to promote mental health and address psychosocial issues that may impede school functioning. Prerequisites: CED 727

EPP 745 - Legal Clinic on Law, Ethics, & Advocacy Credits 3
Collaborative interdisciplinary experiences advocating for the educational rights of children and youth who are involved in the legal system. Substantive areas of law, psychology, educational advocacy; ethics, consultation, collaboration, and professionalism.

EPP 750 - Advanced Test Analysis in School Psychology Credits 3
Functional and theoretical approach for interpretation and inquiry applications with cognitive and affective scales typical in school-based practice. Emphasis on advanced statistical analysis for synthesizing data in diagnostic and validation studies. Prerequisites: Admission to doctoral program or consent of instructor.

EPP 760 - Cultural Ecological Model in School Psychology Credits 3
Provides skills needed to work with diverse learners in a psychoeducational setting. The learner will be expected to understand multicultural issues concerning assessment, counseling, second-language acquisition, and/or general cultural diversity. Grading: letter grade Prerequisites: Admission to program or consent of instructor.

EPP 761 - Role & Function of the School Psychologist in a Global Society Credits 3
Primarily designed for prospective school psychologists but also for those interested in field of school psychology. In-depth survey of field with its related problems and issues. Local, regional, and national issues studied from a practical field perspective. Grading: letter grade Prerequisites: Consent of instructor.

EPP 762 - School Psychology Intervention with Practicum Credits 3
Supervised practice with children in school and clinic settings with intervention recommendations. Notes: May be repeated up to a maximum of nine credits. Prerequisites: Admission to program and consent of instructor.

EPP 763 - Psychoeducational Academic and Diagnostic Assessment Credits 3
Teaches students how to effectively perform psychological, academic, and diagnostic testing as part of a general psychoeducational evaluation. Students will also be given skills in diagnosing educational and psychological disorders. Prerequisites: Admission to program or consent of instructor.

EPP 764 - School Psychology Seminar Credits 1
Review of issues and research in the field of school psychology. Notes: May be repeated to a maximum of four credits. Prerequisites: Consent of instructor.

EPP 765 - Advanced Assessment Seminar Credits 1 – 9
Designed to provide functional skills in assessment in the diagnosis and evaluation phase of counseling to provide skills in the administration, scoring, and interpretation of clinical instruments. Prerequisites: Admission to program or consent of instructor.

EPP 766 - School Psychology Professional Paper Credits 2
Scholarly paper on a topic pertinent to the profession of school psychology. Prerequisites: Admission to program and consent of instructor.

EPP 767 - School-Based Neuropsychological Assessment Credits 3
Provides functional skills in neuropsychological assessment for school psychologists with attention to organization of the human nervous system, brain-behavior relationships, and developing recommendations for instructional interventions based on neurocognitive strengths and weaknesses.

EPP 769 - Internship in School Psychology Credits 3
Supervised school-based experience as a school psychologist intern. Notes: May be repeated to a maximum of six credits. Prerequisites: EPP 761 (may be taken concurrently).
EDH 602 - Reading Based Decision Making
Credits 3
This course familiarizes students with facilities management, campus planning, and public/private partnerships. The goal of the class is to increase the awareness and understanding of the topic areas and their impact on both the academic and administrative programs at higher education institutions. Formerly EDH 712

EDH 624 - Readings in Student Personnel Issues
Credits 3
Explores in detail all aspects of college student personnel work by conducting an extensive review of writings related to theory, practice, and program management. Formerly EDH 734 Prerequisites: Consent of instructor.

EDH 626 - College Student Personnel Services
Credits 3
Introduction to the field of college student personnel services and the role of CSPW within institutions of higher education. Reviews development of the profession and assessment of current developments. Formerly EDH 762

EDH 628 - The Student Athlete
Credits 3
Student-athlete experiences on U.S. college campuses. Understanding of academic advising and life skills training as an essential component of student-athlete success, retention and persistence. Progress through roles and functions of athletic support staff--from recruiting to enrollment and continuing toward graduation and post-graduate experiences. Grading: Letter grade

EDH 690 - Masters Internship
Credits 3
Individually structured program designed to enroll the student in an administrative unit or academic experience under the joint supervision of a practicing administrator or faculty member and a university professor. Notes: Repeatable to six credits. Grading: S/F grading only.

EDH 691 - Masters Independent Study
Credits 3
Research, teaching, or administrative work in a unique area of interest to the student. All work conducted in cooperation with instructor/advisor. Notes: Repeatable to six credits. Corequisite of instructor.

EDH 703 - History of American Higher Education
Credits 3
Surveys the history of American higher education in the United States with a focus on two-year and four-year institutions, public and private. Begins with its traditional liberal arts origin through the growth of the community college and American research university. Explores how various groups changed the structure of higher education and the consequences created. Prerequisites: Master's consent of instructor.

EDH 705 - HE Law-Doctoral
Credits 3
Designed for graduate students preparing for leadership positions in public schools. Formerly EDH 752 Prerequisites: Consent of instructor.

EDH 706 - Current Issues in Higher Ed
Credits 3
Assists graduate students in higher education in developing understanding of and appreciation for philosophical and sociological contexts that provide foundation for present system of higher education in America.

EDH 707 - Designing & Critiquing Research In Education
Credits 3
Helps Ph.D. students become more thoughtful about the goals and methods of educational research. Develops in-depth understanding of research design and awareness of issues considered when critiquing research findings.

EDH 708 - The American Community College
Credits 3
Development of the contemporary community, junior, and technical college. In-depth examination of history, philosophy, curriculum, and structure of the two-year college. Includes related curriculum topics. Prerequisites: Consent of instructor.

EDH 712 - Graduate Level Research Seminar
Credits 3
Corequisite of instructor.

EDH 715 - Doctoral Research Seminar
Credits 3
Corequisite of instructor.

EDH 722 - Research Methods for Educators
Credits 3
This course familiarizes students with facilities management, campus planning, and public/private partnerships. The goal of the class is to increase the awareness and understanding of the topic areas and their impact on both the academic and administrative programs at higher education institutions. Formerly EDH 712

EDH 751 - Doctoral Qualifying Exam
Credits 3
S/F grading only.

EDH 770 - Systems Change, Advocacy in Schools
Credits 3
Overview of models for systems change in schools and skills in research-based interventions, organizational consultation, leadership, and advocacy.

EDH 603 - Introduction to College Sport
Credits 3
Examine the role athletics and recreational sport plays in higher education. Through analysis of relevant scholarly literature and current issues, students will experience the expectations placed on higher education administrators responsible for integration and oversight of college sport programs. Grading: graded

EDH 604 - Management Communications
Credits 3
Master’s level course on the administrative and communication aspects of effective leadership within a higher education setting. Equips students with the tools necessary to be effective communicators with various audiences via letters, memorandums, E-mail messages, presentations, and meetings. Formerly EDH 704 Notes: (Master's Program)

EDH 605 - Introduction to Colleges and Universities
Credits 3
Master's level course that provides an introduction to the purposes, goals, and structures of institutions of higher education. Provides a broad view of managerial functions and an understanding of organization, finance, and other issues related to college administration. Notes: Master's program

EDH 606 - Intercollegiate Athletic Administration
Credits 3
This course provides students with an understanding of governance and policy development relevant to higher education, intercollegiate athletics. Through analysis of relevant scholarly literature, national governing body policies and institutional policies, students experience expectations placed on administrators responsible for oversight of intercollegiate athletics.

EDH 607 - Leadership Development Seminar
Credits 3
Analyzes leadership functions related to educational organizations, leadership and management theory and the impact of human resources. Special emphasis placed on use of teams in higher education. Formerly EDH 728

EDH 608 - HE Law-Masters
Credits 3
Informs students of various legal authorities and their impact on higher education and administration. Includes review and analysis of legal dictates including federal and state constitutions, statutes, case law policies, and administrative rules. Formerly EDH 751 Notes: (Master's Program)

EDH 609 - Leading Diverse Organizations
Credits 3
Provides students with opportunity to reflect on experiences, examinations of theory, and practical application of organizational leadership within the context of diversity. Formerly EDH 761

EDH 610 - Master’s Capstone Experience
Credits 1
Provides an integrative, synthesizing experience for students culminating in a written examination or an Option II Paper. Draws on and integrates concepts from previous courses and work experiences to ascertain the big picture perspective of higher education. Formerly EDH 798 Notes: Only one credit may count toward degree plan. Grading: S/F grading. (Master's Program)
EDH 709 - Seminar in the Economics of Higher Education
Credits 3
Designed to expose students to the basic principles of micro economics and fundamental economic theories that tie to education. Students have opportunity to experiment with economics as a tool for examining higher education policy. Prerequisites: Consent of instructor.

EDH 710 - Finance and Budgeting in Higher Education Credits 3
For students who expect to spend their careers in higher education. Provides understanding of the principals related to the economics of education including why society invests in colleges and universities.

EDH 711 - Marketing Higher Education and College Sport
Credits 3
A study of the conceptual and empirical approaches higher education leaders can utilize for building relationships with stakeholders. Topics include commercialization of higher education, market forces versus public interest, responsible innovation, strategic marketing plan development, corporate sponsorships and intercollegiate athletics, marketing ethics, as well as application of market research in the higher education contexts. Grading: Letter grade

EDH 712 - Title IX and Gender Equity
Credits 3
Examines the law created to remedy sex discrimination within educational environments and relevant legal interpretations. Reviews significant lawsuits and explores how the legislation has been applied and judicially clarified over the years through changing social and political climates. Grading: Letter grade

EDH 713 - Sport Governance & Policy
Issues of governance in U.S. sport. Grading: Letter grade

EDH 714 - Understanding Minority Serving Institutions
Credits 3
The course seeks to examine the emergence of the use of MSI as a Federal designation in higher education and consider the impact that may have at the institutional level with respect to students, faculty, and staff as it relates to campus climate, student learning, and engagement. Same as No Prerequisites: EPY 702 (or equivalent)

EDH 715 - Theory of Educational Organizations
Intense discussion in understanding how higher educational organizations function. Students examine these roles as they relate to the performance of higher education administrators.

EDH 719 - Institutional Advancement
Introduction to fundraising and alumni relations operations in contemporary higher education. Examines the assumptions, models, and methods that characterize fund and friend raising. Students will develop a context within which to evaluate the effectiveness of IA programs. Formerly EDH 718

EDH 723 - Women in Higher Education
Credits 3
Women's experiences with higher education structures and policies are studied. We explore intersections of race, gender, socio-economic status and identity development in college women, while considering intersections of feminist theory and historical, social, professional and institutional contexts to shed light on the educational process and how women frequently experience discrimination.

EDH 727 - College Students in the United States
Credits 3
Explores how students learn and develop. Strategies to facilitate learning by college students analyzed. Focuses on application of student development theory. Formerly EDH 764 Grading: graded

EDH 730 - Institutional Assessment
Credits 3
The course provides students with sufficient understanding of assessment practices to conduct or supervise effective, efficient, and useful assessment projects to meet the assessment requirements of accreditation agencies, legislatures, review boards, and other external audiences to improve their institutions, departments, and programs.

EDH 732 - Readings in Administration of Higher Education
Credits 3 – 6
Selected readings of literature in higher education; assigned topics in the areas of organization, administration, finance, and/or supervision, agreed upon by both advisor and student. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

EDH 733 - The Professorate
Credits 3
Designed to engage participants in discussion, research, and writing that focuses on college and University faculty. Analyze faculty as people at work in organizations, consider structural and cultural dimensions of faculty work, and examine the condition of the academic profession within changing environmental contexts. Formerly EDH 760 Prerequisites: Masters consent of instructor.

EDH 737 - Ethical Dimensions of Higher Education Leadership
Credits 3
Ethical aspects of the culture, activities, and principles relating to leadership in higher education. Students will explore current ethical issues in the post-secondary education setting and prepare a written project focusing on the ethical principles of a higher education leadership issue. Prerequisites: Masters consent of instructor.

EDH 738 - Public Policy in Higher and Post-Secondary Education
Credits 3
Focuses on decision making and public policy formation in higher education. Roles of state and national policy-making process studied in depth. Formerly EDH 792 Prerequisites: Master's consent of instructor.

EDH 739 - Organization Change & Innovation in Higher Education
Credits 3
Introduces students to philosophical and application tools in which to view public policy. Students will examine higher education policy utilizing these different tools and national databases. Prerequisites: EDH 792

EDH 740 - Comparative and International Higher Education
Credits 3
Familiarizes students with international higher education systems. The goal of the course is to examine the similarities and differences of the international systems as they relate to higher education in the United States. Prerequisites: Master's consent of instructor.

EDH 742 - Academic Governance in Higher Education
Credits 3
Theoretical and working knowledge of politics in higher education. Students gain appreciation, understanding and critique of politics and its influences on policy formation. Formerly EDH 787 Prerequisites: Master's consent of instructor.

EDH 745 - Institutional Planning in Higher Education
Credits 3
Familiarizes students with institutional planning in higher education with a focus on issues including academic strategy, university management, institutional competition, program evaluation/assessment, and program/institutional accreditation. Planning issues at community colleges, private four-year institutions, and public four-year institutions will be examined.

EDH 750 - Special Topics in Higher Education
Credits 1-3
Exposes students to and helps them understand special topics that impact and influence higher education. Variety of special topics offered: student financial aid, enrollment management, academic organization and leadership, and student diversity. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.

EDH 780 - Seminar: Teaching in Higher Education
Credits 3
Weekly seminars in organization, materials, and procedures related to working with college-level students. Includes survey of various teaching techniques, evaluation, and general patterns of instruction.

EDH 785 A - Practitioner Experience Seminar
Credits 3 – 9
Follows a three-course sequence that combines seminar discussions along with limited practical experience in an administrative office or department of a postsecondary institution. The three seminars center on academic affairs, student services and finance, and administration. Prerequisites: Completion of doctoral core. (Ed.D. Program)
EDH 785 B - Practitioner Experience Seminar Credits 3 – 9
Follows a three-course sequence that combines seminar discussions along with limited practical experience in an administrative office or department of a postsecondary institution. The three seminars center on academic affairs, student services and finance, and administration. Prerequisites: Completion of doctoral core. (Ed.D. Program)

EDH 785 C - Practitioner Experience Seminar Credits 3 – 9
Follows a three-course sequence that combines seminar discussions along with limited practical experience in an administrative office or department of a postsecondary institution. The three seminars center on academic affairs, student services and finance, and administration. Prerequisites: Completion of doctoral core. (Ed.D. Program)

EDH 790 - Doctoral Internship Credits 3
Individually structured program designed to enroll the student in an administrative unit or academic experience under the joint supervision of a practicing administrator or faculty member and a university professor. Notes: Repeatable to six credits. Grading: S/F grading. Prerequisites: Internship-doctoral.

EDH 791 - Doctoral Independent Study Credits 3
Research in area of unique interest in college student personnel work. Research conducted in cooperation with instructor. Notes: Repeatable to six credits. Prerequisites: Consent of instructor.

EDH 796 - Dissertation Proposal Preparation Credits 3
Acquaints students with resources available to graduate students in conceptualizing, proposing, conducting and reporting research proposals. Prerequisites: Successful completion of comprehensive examination.

EDH 799 - Dissertation Credits 1 - 3
Culminate research analysis and writing toward completion of dissertation and subsequent defense. Prerequisites: Limited to doctoral candidates, consent of instructor.

EDA 771F - Research Credits 1 - 6
Designed for graduate students preparing for leadership positions in public schools. Grading: Letter grade

Early Childhood, Multilingual, and Special Education

The Department of Early Childhood, Multilingual, and Special Education offers graduate degree programs at the master's and doctoral levels. Master's level programs are designed for applied practice in educational (i.e., early childhood, early childhood special education, English language learning, school counseling, special education) and clinical settings (i.e., clinical/mental health counseling). Many of the master's level programs are aligned to educational licensure and/or endorsement requirements in the state of Nevada. The doctoral program in special education is designed for future professors or educational leaders in special education (i.e., autism, learning disabilities, emotional/behavioral disabilities, gifted, intellectual disabilities, early childhood special education) or early childhood education.

Monica Brown, Ph.D., Chair
Joseph Morgan, Ph.D., Graduate Coordinator

Early Childhood, Multilingual, and Special Education Faculty

Chair
Brown, Monica- Full Graduate Faculty Professor; B.A., University of Arkansas; M.Ed., Ph.D., University of Nevada Las Vegas. Rebel since 2014.

Graduate Coordinators
Baker, Joshua - Full Graduate Faculty Assistant Professor; B.A., M.A., Marshall University; Ph.D. University of North Carolina, Charlotte. Rebel since 2012.

Morgan, Joseph - Full Graduate Faculty Assistant Professor; B.A., University of Illinois at Chicago; M.Ed., Ph.D. University of Nevada, Las Vegas. Rebel since 2012.

Graduate Faculty
Bengochea, Alain - Full Graduate Faculty Assistant Professor; B.A., University of Florida; M.S.Ed., Fordham University; Ph.D., University of Miami. Rebel since 2016.

Brinson, Jesse A. - Full Graduate Faculty Associate Professor; B.A., Clark College; M.A., University of the District of Columbia; Ed.D., Western Michigan University. Rebel since 1989.

Brown, Nancy - Associate Graduate Faculty in Residence; B.S., M.Ed., Utah State University. Rebel since 1992.

Chen, Ching-Chen (Jen) - Full Graduate Faculty Assistant Professor; B.Ed., M.S., National Dong Hwa University; M.A., Ph.D., University of Cincinnati. Rebel since 2016.

Cumming, Michelle - Full Graduate Faculty Assistant Professor; B.F.A, Florida International University; M.S.Ed., Sunbridge College; Ph.D., University of Florida. Rebel since 2016.

Filler, John - Full Graduate Faculty Professor; B.A., Randolph Macon College; M.A., Wake Forest University; Ph.D., Vanderbilt University. Rebel since 1989.

Gelfer, Jeffrey - Full Graduate Faculty Professor; B.A., Wilmington College; M.S., University of Oregon; Ph.D., Florida State University. Rebel since 1989.

Harris, Katrina - Full Graduate Faculty in Residence; B.A., Stephens College; M.Ed., Ph.D., University of Nevada, Las Vegas. Rebel since 2010.

Higgins, Kyle - Full Graduate Faculty Professor; B.A., M.A., Ph.D., University of New Mexico. Rebel since 1991.
Graduate Certificate in Special Education
Dual Degree: Doctor of Philosophy - Special Education & Juris Doctor

Doctor of Philosophy - Special Education

Plan Description

The Doctor of Philosophy Degree (Ph.D.) is designed with an emphasis in the development of skills in scientific inquiry and leadership. Students enrolled in this study program gain an understanding of philosophy and theory as they relate to the conduct of research and program evaluation. Graduates pursue careers in schools, institutions of higher education, research centers and agencies that require the competencies developed through a Ph.D. course of study.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the Special Education Ph.D. program must complete the Graduate College Application for Admission and arrange to have official transcripts sent to the Graduate College. Graduate level transcripts should indicate grade point averages (and receipt of a post baccalaureate degree in special education or a related field).

The following materials also should be submitted through the online application network.

1. A letter of application that clearly articulates professional and research goals that are related to the focus of the Ph.D. degree program in Special Education;

2. Three letters of recommendation – at least one from an individual familiar with the applicant’s academic performance and potential for doctoral degree completion and at least one from an individual knowledgeable of the applicant’s quality of work experience;

3. Representative samples of scholarly writing, preferably in APA style, and/or other media samples related to professional study;

4. A resume of professional preparation and experience (a minimum of two to three years of professional experience in special education, general education or other relevant field as a teacher, administrator or related service provider for children and adults with disabilities and/or giftedness is preferred);

5. Scores from the verbal, quantitative and analytical sections of the Graduate Record Examination (GRE) (taken within five years from the date of application for admission). Applicants should arrange to have official notification of GRE scores sent to the Department of Early Childhood, Multilingual, and Special Education. The department does not impose minimum GRE scores.

It is the student’s responsibility to ensure that his/her applicant file is complete. Incomplete files will not be considered. Application materials for U.S. residents requesting financial support are due March 1.

Note: The department admissions committee may request additional materials and/or conduct a personal interview after reviewing initial applicant files.

In general, applicants will be expected to have a 3.50 grade point average on all graduate-level work and an indication of potential to complete all requirements of doctoral study successfully (provided through submitted writings or creative products, letters of recommendation and GRE results) to be admitted as doctoral students in the Department of Early Childhood, Multilingual, and Special Education.

After Admission Committee review, the Doctoral Program Coordinator may recommend to the department faculty that the applicant be: 1) admitted fully to the Ph.D. program in special education, 2) admitted provisionally to the Ph.D. program or 3) denied admission to the Ph.D. program in special education. A recommendation for provisional admission may occur when an applicant has not met the criteria or prerequisites to do advanced graduate level work. Provisional admission requires the satisfactory completion (e.g., with a minimum 3.50 grade-point average) of nine or more hours in regularly scheduled graduate courses approved by the student’s advisor and departmental faculty. After completion of the provisional program, the Doctoral Coordinator and Department Chair recommend to the Graduate College that the student either be transferred to regular status or dropped from the program.

Note: To apply for a Graduate Assistantship, applicants must complete online the Graduate Assistant Application for the Department of Early Childhood, Multilingual, and Special Education.

Hoskins, Wendy - Full Graduate Faculty Associate Professor; B.A., William Penn College M.A., Truman State University; Ph.D., Idaho State University. Rebel since 2003.

Huerta, Margarita- Full Graduate Faculty Assistant Professor; B.A., Rice University; M.A., University of Texas at Austin; M.Ed., Texas State University; Ph.D., Texas A&M University. Rebel since 2014

Lau, Jared - Full Graduate Faculty Assistant Professor; B.S., University of Hawaii at Manoa; M.S., University of San Diego; Ph.D., University of North Carolina at Charlotte. Rebel since 2013.

More, Cori - Full Graduate Faculty Assistant Professor; B.A., University of Montana; M.Ed., Western New Mexico University; Ph.D., University of Nevada Las Vegas. Rebel since 2013.

Pollard-Durodola, Sharolyn- Full Graduate Faculty Professor; A.B. Mount Holyoke College; M.A.T Columbia, M.S. University of New York, Ed.D. University of Houston. Rebel since 2015.

Smith, Shannon - Full Graduate Faculty Professor; B.A., Eastern Bible College M.A., Ashland College; Ph.D., Oregon State University. Rebel since 2003.

Spies, Tracy - Full Graduate Faculty Assistant Professor; B. S., University of Houston; M.S., Sam Houston State University; Ph.D., Texas A & M University. Rebel since 2012.
All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 72

Course Requirements
Required Courses – Credits: 21
- ESP 782R - Professional Seminar in Special Education
- ESP 783R - Leadership Seminar in Special Education
- ESP 784 - Seminar in Advanced Special Education Technology
- ESP 785 - Issues, Trends and Futures in Special Education
- ESP 787 - Philosophical Perspectives in Special Education
- ESP 788 - Single Subject Methods in Special Education
- ESP 789 - Grant Writing for Human Services

Research Courses – Credits: 6
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- ESP 791 - Proposal Design and Analysis

Statistics Course – Credits: 3
Complete one of the following courses, or another advisor-approved equivalent course.
- EPY 722 - Inferential Statistics and Experimental Design
- KIN 751 - Selected Application of Statistical Techniques I

Additional Research Courses – Credits: 6
Complete 6 credits from the following list of courses, or other advisor-approved courses.
- EPY 716 - Evaluation Research Methods
- EPY 718 - Qualitative Research Methodologies
- EPY 733 - Multivariate Statistics
- KIN 752 - Selected Application of Statistical Techniques II

Internship Course – Credits: 6
Credits must include 3 credits in Topic A: Research and 3 credits in Topic B: Teaching.
- ESP 794 - Internship in Special Education

Leadership & Exceptionality Courses – Credits: 15
Complete 15 credits of advisor-approved leadership and exceptionality courses from one or more of the following leadership concentrations: Parenting, Administration, Research, Diagnosis/Assessment, Transition, Early Childhood Special Education, Early Childhood Education, Higher Education, Technology, Consultation, or Curriculum.

Complete credits in two specialty areas from the following list: Autism, Learning Disabilities, Emotional Disturbance, Mental Retardation, Gifted and Talented Education, Developmental Disabilities/Children at Risk.

Prospectus Course – Credits: 3
Complete the following course as an independent study supervised by the advisor.
- ESP 796 - Dissertation Prospectus

Dissertation – Credits: 12
- ESP 799 - Dissertation

Plan Degree Requirements
1. The program of study requires a minimum of 72 semester hours. Only credits that meet the following criteria may be included on the formal Program of Study:
   1. Those not previously used to fulfill requirements for another degree;
   2. Those taken while enrolled at an accredited graduate degree-granting institution in a degree-granting program;
   3. Those taken as a non-degree seeking student (not to exceed 15 total semester hours); and
   4. Those for which a grade of B or higher was earned.
2. Doctoral students must earn a grade of B or higher in all core curriculum courses.
3. Doctoral Students must earn a grade of B or higher in EPY 721 and EPY 722/KIN 751.
4. Doctoral students are required to spend a minimum of two consecutive semesters (Fall-Spring, Spring-Summer or Summer-Fall) in full-time resident study in the Department of Early Childhood, Multilingual, and Special Education. Full-time resident study is defined as being enrolled in at least nine semester hours of graduate level course work from an approved Program of Study (six semester hours if the student is a graduate assistant). In cases where residency includes a semester of course work prior to submission of the Program of Study, the advisor must approve residency. Work during residency is allowed. However, if the student is
employed as a graduate assistant, any additional work beyond that performed as an assistant must conform to the rules of the University and Graduate College.

5. Two-thirds of the total semester hours included on the formal Program of Study (not including dissertation) must be taken at UNLV. Faculty members of the Department of Early Childhood, Multilingual, and Special Education instructing specialist's and/ or master's classes initiate an interaction with doctoral students enrolled in these courses regarding the appropriateness of both the content and performance requirements for doctoral students. Students not admitted to the doctoral program in Early Childhood, Multilingual, and Special Education (or to another doctoral program in the College of Education) may enroll in: ESP 782 - Professional Seminar in Special Education (formerly ESP 760) and two additional Core Curriculum Courses with consent of instructor prior to formal admission.

6. The Early Childhood, Multilingual, and Special Education Doctoral Colloquium typically is held one Friday each semester. The Doctoral Coordinator coordinates these meetings with the assistance of the special education faculty and doctoral students.

7. The comprehensive examination is taken during the semester immediately preceding enrollment in ESP 799 Dissertation. The comprehensive examination consists of 16 hours of written examinations with eight hours structured by the student's major advisor and eight hours structured by the other internal committee members. The examinations are scheduled on two successive Fridays. The student's advisor determines the specific dates of the examination. The questions on the comprehensive examination address elements of the Core, Research, Leadership Studies, Exceptionality Specialties, and any course work taken for licensure or endorsements. The student's Doctoral Studies Committee provides general parameters from which questions are selected. “Take-home” examinations, in whole or in part, are not allowed. Students may use college provided technology for word-processing. Grading consists of three categories: Pass, Fail, and Pass with Distinction. Pass with Distinction occurs contingent upon a unanimous vote of the committee excluding the Graduate College representative. Students who fail the comprehensive examination will be placed on probation and must wait 4 months from the date of the failed examination to re-write their exam. However, under no circumstances may the reexamination be later than the semester following the failed examination. Students not passing the comprehensive examination on the re-write will be “excused” from the program.

8. Upon successful completion of the comprehensive examination, the student selects a dissertation committee (i.e., minimum of three faculty members from the Department of Early Childhood, Multilingual, and Special Education and an outside member appointed by the Graduate College) and submits a dissertation proposal to the committee. This proposal includes an introduction, review of the literature, and a discussion of study methods. Two weeks after this proposal is submitted to the dissertation committee, the committee meets with the student to accept or reject the proposal, as well as provide a critique of its relative strengths and weaknesses. Upon acceptance of the student's dissertation proposal, a recommendation for advancement to candidacy is submitted to the Graduate College.

9. Upon completion of the full dissertation, a defense is scheduled. Students need to obtain The Guide to Preparing and Submitting a Thesis or Dissertation from the Graduate College web site.

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

**Graduate Certificate in Early Childhood Special Education - Infancy**

**Plan Description**

The Certificate in Early Childhood Special Education-Infancy (ECSE-Infancy) program is a graduate certificate program designed for individuals who want to acquire specific ECSE-Infancy skills to meet the needs or demands of their workplace and an NDE endorsement. The certificate program is suitable for students with no prior ECSE background, as well as for those who have prior ECSE knowledge or education and want to acquire specific additional skills. The following are examples of students who can benefit from the program:

- Individuals who have graduated from an ECE undergraduate program or related program several years ago who can use the Certificate in ECSE-Infancy program to stay current with ECSE changes.
- ECSE professionals who want to retool themselves to acquire new ECSE skills.
- Individuals with no formal prior ECSE education who want to learn about ECSE and earn the NDE endorsement in ECSE-Infancy.
For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

**Application deadlines**

Applications available on the UNLV Graduate College website.

The ECSE-Infancy Certificate requires a minimum of 27 hours of studies. Each applicant for admission to the Certificate program must comply with Graduate College requirements for admission. In addition to meeting the requirements of the Graduate College, applicants must also meet the requirements established by the Department of Early Childhood, Multilingual, and Special Education:

1. Minimum of GPA of 2.75 for all undergraduate work or 3.0 for the last two years of undergraduate study.
2. Completed Certificate application for admission.
3. One set of official transcripts from all previously attended colleges and universities sent directly to the Graduate College.
4. A one page letter of intent that includes (1) the ECSE Certificate area of emphasis (Infancy or Preschool) you are interested in, (2) your professional and academic goals, and (3) a discussion of your experience relative to the program. Please upload this letter when you apply on-line through the Grad Rebel Gateway.
5. All applicants must review and follow the Graduate College Admission and Registration Requirements.

Admission to a Certificate program in early childhood special education requires that students with a GPA of less than 2.75 be admitted to the Certificate program with provisional status. Applicants are evaluated on scholastic record, professional accomplishments, and potential for advanced studies.

Currently, students may be admitted during any semester.

**Graduate College Admission Requirements**

- Completed application for admission and fee, and
- Set of official transcripts from all previously attended colleges and universities.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

**Total Credits Required:** 27

**Course Requirements**

**Core – Credits: 18**

- ESP 771 - Perspectives on Early Childhood Special Education
- ESP 772 - Family Education in Early Childhood
- ESP 773 - Assessment for Young Children with Disabilities
- ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
- ESP 775 - Strategies for Early Childhood Special Education
- ESP 779 - Early Intervention Service Coordination

**Fieldwork – Credits: 9**

- ESP 780 - Field Experience in Early Childhood Special Education - Infancy

**Certificate Requirements**

1. Acceptance to the Graduate College Early Childhood Special Education Certificate Program.
2. Completion of 27 Credit hours in the Certificate required courses with an overall GPA of 3.0 within 4 years.
3. Students in certificate programs would be subject to the continuous enrollment policy. They would have to enroll in at least six credits each rolling three semesters (including summer). They would be separated from the program as soon as this threshold is met. However, a leave of absence is an option.
4. No more than one grade of less than B- will be permitted in a Certificate Program of Study.

**Plan Certificate Completion Requirements**

Students in certificate programs would be subject to the continuous enrollment policy completing the program within 4 years. They would have to enroll in at least six credits each rolling three semesters (including summer).

Upon completion of all ECSE-Infancy Certificate course work students are required to schedule a meeting with their advisor. At the time of the meeting students must provide their advisor with an official transcript showing that the student has met all ECE and Graduate College Certificate requirements. At the completion of the meeting students will be required to complete an exit survey.
Graduate Certificate In Early Childhood Special Education-Preschool

Plan Description

The Certificate in Early Childhood Special Education-Preschool (ECSE-Preschool) program is a graduate certificate program designed for individuals who want to acquire specific ECSE-Preschool skills to meet the needs or demands of their workplace and an NDE endorsement. The certificate program is suitable for students with no prior ECSE background, as well as for those who have prior ECSE knowledge or education and want to acquire specific additional skills. The following are examples of students who can benefit from the program:

- Individuals who have graduated from an ECE undergraduate program or related program several years ago who can use the Certificate in ECSE-Preschool program to stay current with ECSE changes.
- ECSE professionals who want to retool themselves to acquire new ECSE skills.
- Individuals with no formal prior ECSE education who want to learn about ECSE and earn the NDE endorsement in ECSE-Preschool.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The ECSE-Preschool Certificate requires a minimum of 27 hours of studies. Each applicant for admission to the Certificate program must comply with Graduate College requirements for admission. In addition to meeting the requirements of the Graduate College, applicants must also meet the requirements established by the Department of Early Childhood, Multilingual, and Special Education:

1. Minimum of GPA of 2.75 for all undergraduate work or 3.0 for the last two years of undergraduate study.
2. Completed Certificate application for admission.
3. One set of official transcripts from all previously attended colleges and universities sent directly to the Graduate College.
4. A one page letter of intent that includes (1) the ECSE Certificate area of emphasis (Infancy or Preschool) you are interested in, (2) your professional and academic goals, and (3) a discussion of your experience relative to the program. Please upload this letter when you apply on-line through the Grad Rebel Gateway.
5. All applicants must review and follow the Graduate College Admission and Registration Requirements.

Admission to a Certificate program in early childhood special education requires that students with a GPA of less than 2.75 be admitted to the Certificate program with provisional status.

Graduate College Admission Requirements

- Completed application for admission and fee, and
- Set of official transcripts from all previously attended colleges and universities.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 27

Course Requirements

Core – Credits: 18

- ESP 771 - Perspectives on Early Childhood Special Education
- ESP 772 - Family Education in Early Childhood
- ESP 773 - Assessment for Young Children with Disabilities
- ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
- ESP 775 - Strategies for Early Childhood Special Education
- ESP 778 - Behavior Management for Early Childhood

Fieldwork – Credits: 9

- ESP 781 - Field Experience in Early Childhood Special Education* Preschool/Kindergarten

Certificate Requirements

1. Acceptance to the Graduate College Early Childhood Special Education Certificate Program.
2. Completion of 27 Credit hours in the Certificate required courses with an overall GPA of 3.0 within 4 years.
3. Students in certificate programs would be subject to the continuous enrollment policy. They would have to enroll in at least six credits each rolling three semesters (including summer). They would be separated from the program as soon as this threshold is met. However, a leave of absence is an option.
4. No more than one grade of less than B- will be permitted in a Certificate Program of Study.
Plan Certificate Completion Requirements

Students in certificate programs would be subject to the continuous enrollment policy completing the program within 4 years. They would have to enroll in at least six credits each rolling three semesters (including summer).

Upon completion of all ECSE-Infancy Certificate course work students are required to schedule a meeting with their advisor. At the time of the meeting students must provide their advisor with an official transcript showing that the student has met all ECE and Graduate College Certificate requirements. At the completion of the meeting students will be required to complete an exit survey.

Master of Education - Early Childhood Education

Plan Description

The Master of Education – Early Childhood Education is designed to provide a comprehensive contemporary program of teacher preparation and education for early childhood settings (e.g., day care, preschool education, hospitals, community education, early intervention programs, agencies, infant/toddler education and prek-2nd grade teaching license. In addition, the program provides course work beyond and above the requirements of the State of Nevada’s Licensure requirements). Students will learn about the typically developing children and children with special needs and participate in field work. The program has two tracks, birth through 3 years and birth through 8 years. In the Early Childhood Education Program, students gain knowledge and skills for a variety of careers in educational and intervention programs for young children.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to meeting the admission requirements of the Graduate College, as outlined in the front of this catalog, applicants must also meet the requirements established by the Department of Early Childhood, Multilingual, and Special Education. They are:

1. A minimum grade point average of 2.75 for all undergraduate work or a 3.00 grade point average for the last two years of undergraduate work; and
2. A letter of application/intent.

Applications are processed when all credentials required by both the Graduate College and the Department of Early Childhood, Multilingual, and Special Education have been received by the Graduate Coordinator. The Graduate Coordinator evaluates the applicant’s credentials and recommends either 1) admission to full, contingency, or provisional graduate standing (depending on the strength of the applicant’s academic credentials); or 2) denial. Those who wish to begin studies but who miss the application deadline may enroll as a non-degree graduate student. However, since there is no guarantee that courses taken as a non-degree student will count toward a degree, and since a maximum of 15 hours taken prior to admission to the program may be used to meet degree requirements, candidates are urged to seek advisement prior to registering for any course(s).

Applicants should log back into their online applications to monitor the status of the application. Official decision letters will be posted in the online application once a decision has been made. Hard-copy letters are not issued. The online decision letter will include the name of the student’s advisor. Students are responsible for contacting their advisors.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 36

Course Requirements

Required Courses – Credits: 6

• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Early Childhood Education Courses – Credits: 18

Complete 18 credits from the following list of courses:

• ECE 706 - Planning Curriculum for Young Children
• ECE 707 - Programs in Early Childhood Education
• ESP 709 - Diagnostic and Prescriptive Assessment for Diverse Learners
• ECE 711 - Science and Math for Young Children
• ESP 719B - Advanced Oral and Written Instruction Early Childhood
• ECE 722 - Theoretical Bases for Early Childhood Education
• ECE 726 - Early Education for Infants and Toddlers
OR
• ESP 728 - Theory of Play Development

Early Childhood Special Education Courses – Credits: 9

• ESP 772 - Family Education in Early Childhood
• ESP 773 - Assessment for Young Children with Disabilities
• ESP 775 - Strategies for Early Childhood Special Education
Field Experience Course – Credits: 3
  • ECE 781 - Early Childhood Education Field Experience

Plan Degree Requirements

1. Students must complete a minimum of 36 credit hours with a minimum GPA of 3.00.
2. For Nevada state licensure, students must complete a total of 8 credits of fieldwork; these additional credits will not count towards the degree program.
3. Previous course work included in submitted graduate plans of study must have a grade of B or better. Only two subsequent grades of less than B- (one with an ESP or ECE prefix and one with any other prefix) will be permitted in a submitted plan of study. Failure to meet these standards will result in suspension from the degree program.
4. In order to be endorsed in Teaching English as a Second Language (TESL) the following four courses must be completed in addition to the courses required as part of the degree program:
   TESL 651 – Theories of second language acquisition
   TESL 652 – TESL Methods and Materials
   TESL 653 – TESL curriculum
   TESL 654 – TESL Assessment Procedures
5. Students must successfully complete and pass a comprehensive examination.
   a. The comprehensive examination is taken during the student's last semester of coursework or in the semester immediately following completion of coursework listed on the student's Program of Studies. If student(s) do not pass the exam they will receive only one additional opportunity to take a 2nd comprehensive examination. If students opt to take the comprehensive exam the semester after completion of the coursework listed on their Program of Studies, they must enroll in ESP 766 or another graduate course. Per Graduate College Guidelines, students must be enrolled in a minimum of 3 hours of coursework the semester they graduate.
   b. Students must apply to take comprehensive examinations. Specific application deadlines are available in the Department of Early Childhood, Multilingual, and Special Education.
6. Master's degrees must be completed within a six-year period and continuous enrollment must be maintained throughout the six years, unless a formal request for a leave of absence is approved by the department and Graduate College.

Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

Master of Education - English Language Learning

Plan Description

The M.Ed. English Language Learning program is designed for individuals who hold a baccalaureate degree in elementary, secondary, or special education and seek to earn a master's degree in English Language Learning, with a focus in either English Language Learning or Bilingual Education. Admitted students are required to develop a plan of study relevant to their focus area of study.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the Master's degree program in English Language Learning requires a minimum grade point average of 2.75 for all undergraduate work or a 3.00 for the last two years of undergraduate work. All applicants are evaluated on their scholastic record, professional accomplishments, and potential for advanced studies.

1. Completed admission application and fee
2. Set of official transcripts from all previously attended colleges and universities
3. A one-page (350 to 400 words) letter of intent should include (1) the English Language Learning or Bilingual Education focus area of interest, (2) professional and academic goals, and (3) discussion of experiences relative to the focus area of study. The letter should be uploaded on-line with the application forms through the Graduate College Grad Rebel Gateway application system. Assistantship applications are submitted to the department through the Grad Rebel Gateway application system. International students should check with the Graduate College for current deadlines and procedures.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements
See Subplan Requirements below.

Subplan 1: English Language Learning Track
Subplan 2: Bilingual Education Track

Subplan 1 Requirements: English Language Learning Track
Total Credits Required: 36

Course Requirements

Required Courses - Credits: 6
• EPY 702 - Research Methods
• EPY 722 - Inferential Statistics and Experimental Design

English Language Learning Courses - Credits: minimum 24
• CIL 610 - Content Area Literacy
• TESL 750 - TESL Linguistic Theory
• TESL 751 - Theory and Practice for Academic English Language Development
• TESL 752 - Methods and Curriculum for Teaching ELs
• TESL 753 - TESL Curriculum
• TESL 754 - Assessment and Evaluation of ELs
• TESL 755 - Language Acquisition and Development
• TESL 757 - Policies, Critical Issues, and Best Practices for Pre-K, Elementary, and Secondary ELs Practicum
• TESL 759 - Policies, Critical Issues, and Best Practices for Pre-K, Elementary, and Secondary ELs Seminar

Elective Course - Credits: minimum 3
Complete one of the following courses:
• CIS 684 - Secondary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIE 685 - Elementary Education Curriculum

Culminating Experience - Credits: 1-3
• TESL 770 - TESL Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements

1. The master's degree program requires a minimum of 36 semester hours of approved studies and an overall cumulative GPA of 3.00 in all courses counted toward the degree. Six of these semester hours are in research (3) and multicultural perspectives (3).

2. All graduate students are held responsible for the requirements and academic policies established by the Graduate College and outlined in the front of the graduate catalog. In addition, the Department of Educational & Clinical Studies has established requirements. While these requirements may be obtained from an academic advisor, they are briefly outlined here.
3. Master’s degrees must be completed within a six-year period, and continuous enrollment must be maintained throughout the six years, unless a formal request for a leave of absence is approved by the department and Graduate College.

4. The M.Ed. degree requires students to complete a minimum of 24 credit hours within the English Language Learning core, EPY 702, ESP 722, either a CIE or CIS prefix course, and complete an electronic portfolio (e-portfolio) related to the focus area’s professional standards.

5. The e-portfolio must contain the primary assignments and grading rubrics from all courses on the student’s program of study. It is each students’ responsibility to collect and retain the assignments and graded rubrics at the end of each semester. Students must earn a “B” or better on the primary assignment in order for it to be included in the e-portfolio.

6. In addition, the e-portfolio must include a matrix of the appropriate TESOL Standards linked to the primary assignments from each course. Further, the e-portfolio must include a table of contents and a one-page reflection for each TESOL standard. Each academic advisor will provide additional information and guidelines on the e-portfolios.

7. The e-portfolio must be completed and turned in for evaluation by each student to the academic advisor during the student’s last semester of coursework or in the semester immediately following the student’s last semester of required coursework.

8. The e-portfolio will be evaluated across six academic standards and 4 performance levels:
   1. Academic Standards:
      1. Theory into Practice
      2. Professional Philosophy
      3. Conduct and/or Evaluate Research
      4. Content and Pedagogical Knowledge
      5. Professional Standard Knowledge
      6. Presentation and Format
   2. Performance Levels: (with corresponding rubrics)
      1. Distinguished (3)
         1. exceeds expectations
         2. provides multiple layers of connected and convincing evidence
         3. demonstrates exceptional performance
         4. communicatesdistinctively and authoritatively
      2. Proficient (2)
         1. meets expectations
         2. provides multiple sources of clear evidence
         3. demonstrates satisfactory performance
         4. communicates accurately
         5. presents a clear and convincing argument
      3. Marginal (1)
         1. meets minimum expectations
         2. provides some evidence
         3. demonstrates limited performance
         4. exhibits limited ability to communicate ideas
         5. presents partial or faulty argument
      4. Unacceptable (0)
         1. fails to meet expectations
         2. provides little or no evidence
         3. demonstrates insufficient or incomplete performance
         4. exhibits lack of ability to communicate ideas
         5. presents unsupported or incoherent argument

5. proposes original and creative solutions

The e-portfolio will be graded Satisfactory or Unsatisfactory. A total score of 12 or greater must be attained to earn Satisfactory, and each Academic Standard must receive no less than 2 points each. Unsatisfactory completion will require re-enrolling in the Culminating Experience. An Incomplete is not given for the Culminating Experience.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

2. The student must successfully complete and submit an e-portfolio.
Master of Education - Special Education

**Plan Description**

The M.Ed. program is designed to meet the needs of persons who hold a baccalaureate degree and wish to earn a master's degree in special education or early childhood education special education, with or without licensure. Students are expected to develop a plan of study that is most relevant to their educational purposes. Students seeking a license to teach should be aware that certification or endorsement requirements might limit their choices. A number of specific focus areas are available and can lead to the following Nevada Department of Education endorsements: Autism, Early Childhood Special Education, Learning Disabilities, Generalist-Mild Disabilities, Gifted and Talented, Emotional Behavioral Disorders, Intellectual Disabilities, Applied Behavioral Analysis (BCBA), or other professional areas. The Master of Education – Special Education program requires 36 credits of graduate-level coursework. Additional credits may be required for endorsement or licensure purposes.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Master of Education - Special Education; Emphasis in Generalist (K-12)
- Master of Education - Special Education; Emphasis in Gifted Education
- Master of Education - Special Education; Emphasis in Intellectual Disabilities
- Master of Education - Special Education; Teaching English as a Second Language

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to meeting the admission requirements of the Graduate College, as outlined in the front of this catalog, applicants must also meet the requirements established by the Department of Early Childhood, Multilingual, and Special Education. They are:

1. A minimum grade point average of 2.75 for all undergraduate work or a 3.00 grade point average for the last two years of undergraduate work. Admission to a master's degree program in special education requires that students with a GPA of less than 2.75 be admitted to the graduate program with provisional status; and

2. A letter of application/intent.

Applications are processed when all credentials required by both the Graduate College and the Department of Early Childhood, Multilingual, and Special Education have been received by the Graduate Coordinator. The Graduate Coordinator evaluates the applicant's credentials and recommends either 1) admission to full, contingency, or provisional graduate standing (depending on the strength of the applicant's academic credentials); or 2) denial. Those who wish to begin studies but who miss the application deadline may enroll as a non-degree graduate student. However, since there is no guarantee that courses taken as a non-degree student will count toward a degree, and since a maximum of 15 hours taken prior to admission to the program may be used to meet degree requirements, candidates are urged to seek advisement prior to registering for any course(s).

Applicants should log back into their online applications to monitor the status of the application. Official decision letters will be posted in the online application once a decision has been made. Hard-copy letters are not issued. The online decision letter will include the name of the student's advisor. Students are responsible for contacting their advisors.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

See Subplan Requirements below.

Subplan 9: Early Childhood Special Education Infant Track
Subplan 10: Early Childhood Special Education Preschool Track

**Subplan 1 Requirements: Applied Behavioral Analysis Track**

Total Credits Required: 36

**Course Requirements**

Required Courses – Credits: 6

- EPY 702 - Research Methods
- ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 21

Complete 21 credits of advisor-approved course work.

- ESP 712 - Applied Behavior Analysis
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 729 - Characteristics of Students with Autism Spectrum Disorders
- ESP 735 - Advanced Behavior Management
- ESP 739 - Advanced Educational Strategies for Students with Autism Spectrum Disorders
- ESP 762 - Ethical Evaluation of Programs for Persons with Exceptionalities/Special Needs
- ESP 763N - Single Case Research Design
Elective Courses – Credits: 9
Complete 9 credits of advisor-approved course work.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Autism Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
- EPY 702 - Research Methods
- ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 30
Complete 30 credits from the following list of courses, or other advisor-approved courses.
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 709 - Diagnostic and Prescriptive Assessment for Diverse Learners
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 719A - Advanced Oral and Written Language Instruction for Students with Disabilities
- ESP 724 - Math Methods in Special Education
- ESP 729 - Characteristics of Students with Autism Spectrum Disorders
- ESP 730 - Parent Involvement in Special and General Education
- ESP 733 - Management and Modification of Students with Special Needs
- ESP 734 - Vocational and Career Education for Persons with Disabilities in Transition
- ESP 735 - Advanced Behavior Management
- ESP 739 - Advanced Educational Strategies for Students with Autism Spectrum Disorders
- ESP 740 - Speech and Hearing Therapy for Classroom Teachers

Elective Courses – Credits: 21
Complete 21 credits of advisor-approved elective courses.

Licensure Fieldwork Courses – Credits: 8 (Required for Licensure)
Students requiring Nevada state licensure must complete 8 credits of fieldwork.
- ESP 720 - Field Experience in Special Education

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Emotional Disturbance Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
- EPY 702 - Research Methods
- ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 9
Complete 9 credits from the following list.
- ESP 705 - Psychological and Sociological Problems of Students with Emotional Disabilities
- ESP 706 - Advanced Educational Strategies for Students with Emotional Disabilities
- ESP 735 - Advanced Behavior Management

Elective Courses – Credits: 21
Complete 21 credits of advisor-approved elective courses.

Fieldwork Courses – Credits: 8 (Required for Licensure)
Students requiring Nevada state licensure must complete 8 credits of fieldwork from one of the following courses:
- ESP 720 - Field Experience in Special Education
- ESP 737B - Emotional Disturbance

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Generalist - Mild Disabilities Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
- EPY 702 - Research Methods
- ESP 722 - Multicultural Perspectives in Special Education

Elective Courses – Credits: 30
Complete 30 credits from the following list of courses or other advisor-approved courses.

• ESP 701 - Introduction to Special Education and Legal Issues
• ESP 708 - Advanced Education Strategies for Students with Disabilities
• ESP 709 - Diagnostic and Prescriptive Assessment for Diverse Learners
• ESP 719A - Advanced Oral and Written Language Instruction for Students with Disabilities
• ESP 724 - Math Methods in Special Education
• ESP 730 - Parent Involvement in Special and General Education
• ESP 733 - Management and Modification of Students with Special Needs
• ESP 734 - Vocational and Career Education for Persons with Disabilities in Transition
• ESP 737I - Resource Room
  ESP 763Q - Data-Based Decision Making and Growth Models

Licensure Fieldwork Courses – Credits: 12 (Required for Licensure)
Students requiring Nevada state licensure must complete 12 credits of fieldwork. Please see advisor for this information.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Gifted and Talented Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Special Education Course – Credits: 3
Complete 3 credits from the following list of courses or other advisor-approved courses.
• ESP 701 - Introduction to Special Education and Legal Issues

Technology Course – Credits: 3
Complete 3 credits from the following list of courses or other advisor-approved courses.
• CIT 601 - Technology Applications Elementary Curriculum

Assessment Course – Credits: 3
Complete 3 credits from the following list of courses or other advisor-approved courses.
ESP 763Q - Data-Based Decision Making and Growth Models

Gifted Education Courses – Credits: 12
Complete 12 credits from the following list of courses or other advisor-approved courses.
• ESP 717G - Seminar in Advanced Curriculum Development
• ESP 741 - Introduction to Gifted Education
• ESP 742 - Dimensions of Giftedness
• ESP 743 - Teaching Models in Gifted Education
• ESP 745 - Experiential Learning in Gifted Education
• ESP 746 - Creativity in Gifted Education
• ESP 747 - Contemporary Considerations Gifted Education

Elective Courses – Credits: 9
Complete 9 credits of advisor-approved courses.

Licensure Fieldwork Courses – Credits: 9 (Optional)
Students requiring Nevada state licensure must complete 9 credits of fieldwork.
• ESP 720 - Field Experience in Special Education

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Intellectual Disabilities Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 30
Complete 30 credits from the following list of courses or other advisor-approved courses.
• ESP 701 - Introduction to Special Education and Legal Issues
• ESP 702 - Psychological and Social Problems in Intellectual Disabilities
• ESP 704 - Adaptive Curricular Programming for Persons with Intellectual Disabilities
• ESP 715 - Communication Programming for Persons with Severe Disabilities
• ESP 718 - Assessment of Persons with Severe Intellectual Disabilities
• ESP 730 - Parent Involvement in Special and General Education
• ESP 733 - Management and Modification of Students with Special Needs
• ESP 734 - Vocational and Career Education for Persons with Disabilities in Transition
• ESP 755 A - Medically Related Aspects of Disabilities
• ESP 763Q - Data-Based Decision Making and Growth Models

Licensure Fieldwork Courses – Credits: 8 (Optional)
Students requiring Nevada state licensure must complete 8 credits of fieldwork.
• ESP 720 - Field Experience in Special Education

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 7 Requirements: Learning Disabilities Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 18
Complete 18 credits from the following list of courses, or other advisor-approved courses.
• ESP 701 - Introduction to Special Education and Legal Issues
• ESP 707 - Theories of Learning Disabilities
• ESP 708 - Advanced Education Strategies for Students with Disabilities
• ESP 709 - Diagnostic and Prescriptive Assessment for Diverse Learners
• ESP 717C - Seminar in Advanced Curriculum Development
• ESP 727 - Technology in Special Education

Elective Courses – Credits: 12
Complete 12 credits of advisor-approved courses.

Licensure Fieldwork Courses – Credits: 8 (Optional)
Students requiring Nevada state licensure must complete 8 credits of fieldwork from one of the following courses:
• ESP 720 - Field Experience in Special Education
• ESP 737C - Learning Disabilities

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 8 Requirements: Other Professional Areas Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Special Education Courses – Credits: 15
Complete 15 credits of advisor-approved course work in special education.

Elective Courses – Credits: 15
Complete 15 credits of advisor-approved course work.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 9 Requirements: Early Childhood Special Education Infant Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 6
• EPY 702 - Research Methods
• ESP 722 - Multicultural Perspectives in Special Education

Early Childhood Special Education Courses – Credits: 15
- ESP 771 - Perspectives on Early Childhood Special Education
- ESP 772 - Family Education in Early Childhood
- ESP 773 - Assessment for Young Children with Disabilities
- ESP 775 - Strategies for Early Childhood Special Education
- ESP 779 - Early Intervention Service Coordination

Cognate Course – Credits: 3

Complete one of the following courses.
- ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
- ESP 776 - Strategies for Working with Infants and Toddlers in Early Childhood Special Education
- ESP 778 - Behavior Management for Early Childhood

Elective Course – Credits: 3

Complete 3 credits of advisor-approved courses.

Fieldwork Courses – Credits: 9

Complete 9 credits from the following list of courses, or other advisor-approved course work.
- ESP 780 - Field Experience in Early Childhood Special Education - Infancy

Elective Course – Credits: 3

Complete 3 credits of advisor-approved course work.

Fieldwork Courses – Credits: 9

Complete 9 credits from the following list of courses, or other advisor-approved course work.
- ESP 781 - Field Experience in Early Childhood Special Education *Preschool/Kindergarten

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Degree Requirements

1. Previous course work included in submitted graduate plans of study must have a grade of B or better. Only two subsequent grades of less than B- (one with an ESP or ECE prefix and one with any other prefix) will be permitted in a submitted plan of study. Under no circumstances will a Grade Point Average (GPA) of less than 3.00 be allowed on a finished plan of study. Failure to meet these standards will result in suspension from the degree program.

2. For Nevada state licensure, students must complete a total of 8 credits of fieldwork; any additional credits will not count towards the degree program.

3. In order to be endorsed in Teaching English as a Second Language (TESL) the following four courses must be completed in addition to the courses required as part of the degree program:
   - TESL 751 – Theories of second language acquisition
   - TESL 752 – TESL Methods and Materials
   - TESL 753 – TESL curriculum
   - TESL 754 – TESL Assessment Procedures

4. Students must successfully complete and pass a comprehensive examination.
   a. The comprehensive examination is taken during the student’s last semester of coursework or in the semester immediately following completion of coursework listed on the student’s Program of Studies. If students
opt to take the comprehensive exam the semester after completion of the coursework listed on their Program of Studies, they must enroll in ESP 766 or another graduate course. Per Graduate College Guidelines, students must be enrolled in a minimum of 3 hours of coursework the semester they graduate.

b. Students must apply to take comprehensive examinations. Specific application deadlines are available in the Department of Early Childhood, Multilingual, and Special Education.

c. If a student does not pass their comprehensive examination on the first attempt, they must wait 30 days after written notification from the department to reschedule the exam. This will be done in consultation with the student's advisor.

d. A student may retake their comprehensive examination once.

5. Master's degrees must be completed within a six-year period and continuous enrollment must be maintained throughout the six years, unless a formal request for a leave of absence is approved by the department and Graduate College.

Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

CIL 543 - Literacy Instruction II: Clinic-based Credits 3
Methods of instruction and assessment for intermediate grade readers and writers. Designed to help teacher candidates acquire knowledge and strategies related to literacy development and engagement through classroom application, reflection, analysis, and implementation of lessons with diverse learners through tutoring. Formerly: CIL 720
Same as: EDRL 443 Notes: This course is crosslisted with EDRL 443. Credit at the 500-level requires additional work. Grading: Letter grade

TESL 750 - TESL Linguistic Theory Credits 3
General linguistics for the TESL teacher and classroom, focusing on the nature of language, English phonology, syntax, semantics, and language change; introduction to psycholinguistics and sociolinguistics. Formerly: TESL 650

TESL 751 - Theory and Practice for Academic English Language Development Credits 3
Presents a broad survey of first- second-language acquisition research. Stresses theoretical concerns and research findings with an overview of program approaches and models of instruction. Gives special emphasis to the English language structure and the relationship between language and culture. Formerly: TESL 651

TESL 752 - Methods and Curriculum for Teaching ELs Credits 3
Emphasizes evidence-based practices and strategies related to planning, implementing, and managing standards-based EL content instruction and curriculum. Formerly: TESL 652. Prerequisites: TESL 750 and TESL 751

TESL 753 - TESL Curriculum Credits 3
Principles of curriculum organization, development and adaptation of TESL curriculum. Formerly: TESL 653. Prerequisites: TESL 750 and TESL 751

TESL 754 - Assessment and Evaluation of ELs Credits 3
Emphasizes the knowledge and use of a variety of standards-based English language proficiency instruments utilized with English learners. Stresses the use of assessment instruments for identification, placement and demonstration of language growth. Gives special emphasis to the analysis and application of performance-based assessment tools and techniques to inform instruction. Formerly: TESL 654. Prerequisites: TESL 752 and TESL 753

TESL 755 - Language Acquisition and Development Credits 3
Explores the nature of children's language acquisition, emphasizing normal development. Incorporates the application of current research to teaching strategies. Formerly: TESL 655. Prerequisites: TESL 752 and TESL 753

TESL 756 - Technology Assisted English Language Learning Credits 3
Application software for ESL learning, including evaluation of software. Formerly: TESL 656. Prerequisites: TESL 754 and TESL 755

TESL 757 - Policies, Critical Issues, and Best Practices for Pre-K, Elementary, and Secondary ELs Practicum Credits 1 - 9
Supervised field experience in an ESL setting with application of TESL methods, materials, and assessment procedures. Formerly: TESL 657.
Notes: May be repeated to a maximum of nine credits. Prerequisites: TESL 754 and TESL 755

TESL 758 - Cultural and Linguistic Diversity (CLD) Program Leadership Credits 3
Development of leadership competencies and knowledge for teachers who are preparing to serve in leadership roles (school, district, etc.) to support culturally and linguistically diverse learners (English Language Learners). Grading: Letter grade Prerequisites: Graduate standing

TESL 759 - Policies, Critical Issues, and Best Practices for Pre-K, Elementary, and Secondary ELs Seminar Credits 1 - 3
Examination of seminal and current English language acquisition research through readings, writings, discussions and presentations. Formerly: TESL 659. Notes: May be repeated to a maximum of three credits. Prerequisites: 15 graduate credits of ELA coursework.
TESL 760 - Foundations in Education in Cultural and Linguistic Diversity (CLD) Credits 3
Foundational knowledge about the history, theoretical foundations, and practices of educational programs involving culturally and linguistically diverse learners. Grading: Letter grade Prerequisites: Graduate standing

TESL 770 - TESL Culminating Experience Credits 1-3
TESL Culminating Experience Prerequisites: 33 Graduate credits.

TESL 772 - Individual Instruction in Teaching English as a Second Language Credits 1-9
Individual study in the analysis, synthesis, evaluation, and application or learning of issues and selected topics in teaching English as a second language. Notes: Maximum of 9 credits toward degree. Must be approved prior to registration.

TESL 782 - Writing Theories and Second Language Learners Credits 3
Theories of writing as they relate specifically to second language learners with research applications. Grading: Letter grade Prerequisites: ESP 782R

TESL 783 - Research in Writing Across the Content Areas for Second Language Learners Credits 3
Application of research on second language learner writing in the content areas. Grading: Letter grade Prerequisites: TESL 782

TESL 784 - Theory and Research in Effective Professional Development Practices for PK -12 Teachers of ELLs Credits 3
Explores theories in adult learning and models of change as underpinnings including research design for professional development for teachers of English language learners. Examines and critiques research designs, variable variations, instrumentation, and analytic methods in professional development research. Grading: Letter grade Prerequisites: TESL 752, ESP 782R

TESL 785 - Translating Academic Language Research into Practice Credits 3
Explores the mechanisms and barriers in translating academic language research for English learners into instructional practice--through professional development, teaching, and publications. Grading: Letter grade Prerequisites: TESL 784

ECE 706 - Planning Curriculum for Young Children Credits 3
Examination of basic principles underlying the development and planning of non-handicapped early childhood education curriculum. Notes: Review of components of selected curricular areas.

ECE 707 - Programs in Early Childhood Education Credits 3
Overview of current models of early childhood education. Includes principles, research studies, and current trends as factors related to the education of young children.

ECE 709 - Investigations in Early Childhood Education Credits 3
Current practices and methods in early childhood education investigated and evaluated in depth. Prerequisites: Consent of instructor.

ECE 710 - Planning and Administering Early Childhood Programs Credits 3
Investigates the basic principles involved in establishing and operating centers for the young child; examines the historical background of the early childhood education movement; and reviews theories of child development as they relate to planning, operating, and evaluating centers. Prerequisites: Consent of instructor.

ECE 711 - Science and Math for Young Children Credits 3
Preparation, by modeling, for presenting and structuring appropriate science activities/experiences for young children (PK-2) with emphasis on integrating process skills with life, earth, and physical science concepts. Prerequisites: Nine hours of content science, or consent of instructor.

ECE 722 - Theoretical Bases for Early Childhood Education Credits 3
Examination of the underlying theories and perspectives supporting early childhood education. Emphasis on the theoretical foundations for early childhood education and the application of developmental theories across domains.

ECE 726 - Early Education for Infants and Toddlers Credits 3
Theoretical and practical approaches to early education services for newborns, infants, toddlers, and their families. Development of infants and toddlers within the developmental domains and focuses on attachment, milestones, identification of developmental delays, and program development and evaluation.

ECE 740 - Early Language and Learning Credits 3
Focuses on the theory, research and practice of language development from birth through age eight. Opportunities to implement your understanding of language development for typically developing children and children with special needs.

ECE 781 - Early Childhood Education Field Experience Credits 3
In-depth analysis and application of curricular development and program development and evaluation.

ECE 782 - Student Teaching Seminar Credits 2
Application of specific curricular learning and procedures designed to facilitate the task of the student teacher. Notes: This course is crosslisted with EDSP 492. Credit at the 600-level requires additional work. Corequisite ESP 692

ESP 691 - Student Teaching in Special Education Credits 1-12
Full-time supervised practice teaching with exceptional children. Notes: This course is crosslisted with EDSP 491. Credit at the 600-level requires additional work. Corequisite ESP 691

ESP 700 - Problems in Special Education Credits 1 – 6
Specialized instruction in special education designed to develop depth in understanding a current educational problem of the in-service teacher. Notes: Maximum of six credits accepted toward degree from special education courses in EPY 700, ESP 700, and ICG 700.

ESP 701 - Introduction to Special Education and Legal Issues Credits 3
Survey of the characteristics, training, and educational needs of students with disabilities. Designed for graduate students in special education, general education, nursing, counseling, psychology and related fields. Notes: Required of all students in the Generalist Program who do not have a bachelor's degree in special education.

ESP 702 - Psychological and Social Problems in Intellectual Disabilities Credits 3
Study and interpretation of theories and research on the learning characteristics of person with intellectual disabilities: psychological and social contributions to educative/habilitative solutions in intellectual disabilities.

ESP 703 - Prescriptive and Precision Teaching with Intellectual Disabilities Credits 3
Cognitive, adaptive, and diagnostic-prescriptive instructional strategies and behavioral interventions for persons with intellectual disabilities and diverse educational and community settings.

ESP 704 - Adaptive Curricular Programming for Persons with Intellectual Disabilities Credits 3
In-depth analysis and application of curricular development and implementation for persons with intellectual disabilities in diverse educational settings.
ESP 705 - Psychological and Sociological Problems of Students with Emotional Disabilities Credits 3
Study and interpretation of theories and research concerning learning characteristics and psychological and social aspects of the student with emotional disabilities within the school setting.

ESP 706 - Advanced Educational Strategies for Students with Emotional Disabilities Credits 3
Evaluation of the behavioral characteristics of students with emotional disabilities applied to practical classroom strategies. Application of treatment strategies and relevant research to the educational problems of students with emotional disabilities. Prerequisites: ESP 705

ESP 707 - Theories of Learning Disabilities Credits 3
Study of the contemporary positions regarding learning disabilities. Curricular implications of positions emphasized.

ESP 708 - Advanced Education Strategies for Students with Disabilities Credits 3
Advanced instructional methods and procedures applicable to the education of children with learning disabilities. Prerequisites: ESP 701 or ESP 707

ESP 709 - Diagnostic and Prescriptive Assessment for Diverse Learners Credits 3
Establishment of educationally relevant diagnostic and prescriptive teaching procedures for students who are learners (i.e., students with/ or at-risk for disabilities, including those who are second language learners). Emphasis upon both individual and group prescriptive classroom methodologies. Prerequisites: ESP 701 or ESP 708

ESP 712 - Applied Behavior Analysis Credits 3
Evaluation of the application of behavior analysis in classroom, clinical, and consultative settings. Includes definition and characteristics of applied behavior analysis, basic principles of behavior, measurement and observation procedures, evaluation and analysis of behavior change, procedures for increasing and decreasing behavior, and systems applications.

ESP 713 - Affective Assessment Models Credits 3
Study of affective behavioral testing procedures applicable to children and adolescents in public school settings. Emphasis on classroom observational techniques, as well as supplemental employment of data obtained through school relevant behavior rating scales and checklists, task analysis assessments, projective and group personality testing and case studies. Prerequisites: Consent of instructor.

ESP 714 - Advanced Seminar in Learning Disabilities Credits 3 - 6
In-depth review of recent developments and research in the field of learning disabilities. Notes: May be repeated to a maximum of nine credits. Prerequisites: ESP 607 Corequisite ESP 611

ESP 715 - Communication Programming for Persons with Severe Disabilities Credits 3
Critical study of disorders affecting communication of persons with severe disabilities. Emphasis on developmental considerations, ecological needs, clinical assessment, selection and implementation of augmentative systems, support services, funding, and research. Grading: Letter grade

ESP 717A - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: mental retardation. Notes: May be repeated to a maximum of nine credits. Prerequisites: ESP 701

ESP 717B - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: emotional disturbance. Notes: May be repeated to a maximum of nine credits.

ESP 717C - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: learning disabilities. Notes: May be repeated to a maximum of nine credits.

ESP 717D - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: early childhood special education. Notes: May be repeated to a maximum of nine credits.

ESP 717E - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: parent education. Notes: May be repeated to a maximum of nine credits.

ESP 717F - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: gifted education. Notes: May be repeated to a maximum of nine credits.

ESP 717H - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: career education. Notes: May be repeated to a maximum of nine credits.

ESP 717I - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: management and staff direction. Notes: May be repeated to a maximum of nine credits.

ESP 717J - Seminar in Advanced Curriculum Development Credits 1 – 9
Critical study of current curricular models in special education. Areas of emphasis: English Language Learners Notes: May be repeated to a maximum of nine credits.

ESP 718 - Assessment of Persons with Severe Intellectual Disabilities Credits 3
Emphasis on diagnosis and problems encountered in assessing individuals with severe intellectual disabilities. Practice observation techniques, develop and implement ecological inventories, developmental scales, and adaptive behavior scales. Prerequisites: ESP 702 or consent of instructor.

ESP 719A - Advanced Oral and Written Language Instruction for Students with Disabilities Credits 3
Overview course on language development, disabilities, and delays. Information and specific strategies for identifying oral and written language difficulties in students with disabilities. Emphasis on educational applications -- designing and implementing instruction for students with disabilities. Prerequisites: ESP 701

ESP 719B - Advanced Oral and Written Instruction Early Childhood Credits 3
Methods and curriculum in early childhood literacy and early intervention strategies for inclusive education. Prerequisites: ECE 709
ESP 720 - Field Experience in Special Education  Credits 1 – 9
Supervised experience in designing and using prescriptive teaching in the classroom. Areas include: (a) intellectual disabilities, (b) emotional/behavioral disabilities, (c) learning disabilities, (d) early childhood special education, (e) autism, and (f) gifted and talented. A maximum of nine credits may be applied to a graduate program. Notes: May be repeated to a maximum of nine credits.

ESP 722 - Multicultural Perspectives in Special Education  Credits 3
Introduces trends and issues in special education relative to students with disabilities who come from culturally diverse backgrounds. Educational programming and adaptations emphasized.

ESP 724 - Math Methods in Special Education  Credits 3
Effective classroom methods and strategies for assessing, teaching, and monitoring the mathematical performance of students with learning difficulties. Emphasis on practical classroom techniques designed to facilitate skill acquisition, maintenance, retention, and generalization. Computation and problem-solving covered. Prerequisites: ESP 701

ESP 725 - Workshops in Special Education  Credits 1 – 3
Supervised instruction through workshops and conferences in topics relevant to special education. Emphasis on in-service education for regular and special education personnel. Notes: May be repeated to a maximum of four credits. Grading: S/F grading only.

ESP 726 - Policy Analysis and Development for Special Human Services  Credits 3
Principles and practices of policy development and critical analysis of established social policy in local, state, and federal programs and its impact on persons with exceptionalities.

ESP 727 - Technology in Special Education  Credits 3
Uses of computers and other technologies in the instruction of students with disabilities. Includes strategies for adapting computers and selecting software for individuals with special needs. Principles for integrating technology into the curriculum and strategies for teaching academic subjects with technology stressed. Overviews of integrated technologies such as hypermedia and access technologies provided.

ESP 728 - Theory of Play Development  Credits 3
Critical analysis of theoretical, philosophical, empirical, and educational implications of play. Provides planning, integrating and evaluating play in the educational curriculum.

ESP 729 - Characteristics of Students with Autism Spectrum Disorders  Credits 3
Survey of the characteristics of students with autism spectrum disorders, including historical foundations, definitions, placement alternatives, and current issues. Grading: Letter grade

ESP 730 - Parent Involvement in Special and General Education  Credits 3
Overview of current involvement, rationales for parent involvement, and research that supports it. Focuses on common effort by the school, home and community to provide for students' growth through integrated successive learning experiences that allow for variation in skills, cognitive development, emotional creative abilities, and physical development.

ESP 733 - Management and Modification of Students with Special Needs  Credits 3
Provides introduction to applied behavior analysis as it relates to teaching and managing students with special needs. Focuses on teaching new skills and managing inappropriate behavior, both academic and social. Strengths and weaknesses of common school practices for controlling students’ inappropriate behaviors described.

ESP 734 - Vocational and Career Education for Persons with Disabilities in Transition  Credits 3
Consideration and design of vocational and career education programs for students with disabilities including those with intellectual disabilities, learning disabilities, emotional disturbances, and others.

ESP 735 - Advanced Behavior Management  Credits 3
Application of behavioral, psychoeducational and other management approaches for students with disabilities. Special emphasis given to implementation of behavior management techniques for students with disabilities and students in early childhood special education. Prerequisites: Consent of instructor.

ESP 737B - Emotional Disturbance  Credits 1-9
EMOTIONAL DISTURBANCE

ESP 737C - Learning Disabilities  Credits 1-9
LEARNING DISABILITIES

ESP 737I - Resource Room  Credits 1-9
RESOURCE ROOM

ESP 739 - Advanced Educational Strategies for Students with Autism Spectrum Disorders  Credits 3
Advanced instructional methods and curricular models applicable to the education of students with autism spectrum disorders. Prerequisites: ESP 729 or equivalent.

ESP 740 - Speech and Hearing Therapy for Classroom Teachers  Credits 3
Overview of common speech and hearing disabilities, with primary teacher-relevant therapeutic methods and materials applicable to general and special classroom contexts.

ESP 741 - Introduction to Gifted Education  Credits 3
Introduction to individuals who are gifted, including definition, identification, characteristics, etiology, and nurturing factors. Relationship of creativity and concerns for underachievement, cultural differences, disabilities and gender issues of individuals who are gifted.

ESP 742 - Dimensions of Giftedness  Credits 3
Information concerning educational procedures in all areas of functioning appropriate for gifted individuals, along with basic strategies for creativity and self-concept. Skills developed for planning, implementing, and evaluating effective programs for the gifted. Individualization, strategies for teaching, simulation and inquiry skills, and skills of higher-level thinking emphasized. Prerequisites: ESP 741 or equivalent.

ESP 743 - Teaching Models in Gifted Education  Credits 3
Provides comprehensive review of teaching-learning models for use in development and implementation of curriculum for gifted students. Prerequisites: ESP 742 or consent of instructor.

ESP 745 - Experiential Learning in Gifted Education  Credits 3
Connection between the gifted classroom and the world of work and postsecondary education. Focuses on breaking boundaries of school with emphasis on global issues, rapidly changing workplace, and linkage between schools and future life experiences. Prerequisites: ESP 741

ESP 746 - Creativity in Gifted Education  Credits 3
Intensive study of new approaches dealing with creative expression for the gifted student stressing strategies for creativity.

ESP 747 - Contemporary Considerations Gifted Education  Credits 3
Current trends, research and issues in the education of students who are gifted. Prerequisites: ESP 746 and consent of instructor.

ESP 749 - Thesis  Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated, but only six credits applied to the student's program. Grading: S/F grading only.

ESP 752 - Consultative Techniques in Special Education  Credits 3
In-depth emphasis on the differing roles of the special education consultant. Attention given to acquiring practical skills in interviewing parents and teachers of exceptional children.
ESP 753 - Administration and Supervision of Special Education Programs
Credit: 3
Investigation of existing special education administrative units, pupil placement procedures, student staffing, program reimbursement procedures, and federal funding models. Prerequisites: Consent of area coordinator.

ESP 755 A - Medically Related Aspects of Disabilities
Credit: 3
Course emphasizes medical bases of typical and atypical development for individuals across the lifespan. Physical systems and disabilities; etiologies, symptoms, and psychosocial implications of disabilities and medical conditions; and interventions, treatment strategies, resources, transition/vocational implications are addressed.

ESP 755 B - Medically Related Aspects of Disabilities
Credit: 3
Course emphasizes medical bases of typical and atypical development for young children birth to eight with developmental delays. Physical systems and disabilities; etiologies, symptoms, and psychosocial implications of disabilities and medical conditions; and interventions, treatment strategies, resources, transition/vocational implications are addressed.

ESP 762 - Ethical Evaluation of Programs for Persons with Exceptionalities/Special Needs
Credit: 3
Principles and practices in program evaluation including a critical analysis of models, methods of inquiry, evaluator competency issues, implementation strategies, and setting criteria and expectations of impact on persons with exceptionalities/special needs.

ESP 763 - Seminars in Selected Special Educational Topics
Credits: 1 – 3
Areas of emphasis are a) mental retardation, b) emotional disturbance, c) learning disabilities, d) autism, e) early childhood, f) gifted education, g) parent education, h) higher education, i) special education administration, j) research, k) consultation, l) curriculum, m) technology, n) ABA, o) diversity, p) professional writing, q) data-based decision making and growth models. Notes: May be repeated to a maximum of nine credits. Prerequisites: ESP 760 and consent of instructor.

ESP 764 - Characteristics & Inclusive Strategies for Students with LD, ED, & MID
Credit: 3
Overview of natural and characteristics of students with mild disabilities. Issues in assessment, curriculum and instruction, and placement discussed.

ESP 766 - Comprehensive Examination
Credit: 3
Preparation for Comprehensive Examination. Students enroll in this course only if they are not enrolled in coursework in the semester in which they sit for the Comprehensive Examination. Notes: No additional assignments are required. Only one credit will be accepted toward degree plan. Grading: S/F grading only.

ESP 770 - Second Language Methods for Diverse Learners in Inclusive Settings
Credit: 3
Study and implementation of methods and strategies for teaching English language learners (ELLs) with and without disabilities. Learner characteristics and second language development reviewed followed by practical techniques for teaching diverse second language learners across the curriculum.

ESP 771 - Perspectives on Early Childhood Special Education
Credit: 3
Perspectives of national, state, and local programs in special education for young children with disabilities. Reviews variables related to: program development, classroom management, parent involvement, legislation and funding, disability condition, identification, screening and assessment, learning and developmental problems, research, normal child development and developmental deviations.

ESP 772 - Family Education in Early Childhood
Credit: 3
Review family structure and interaction patterns, roles, expectations and conflicts; general and specific problems and needs of families; programs developed for family involvement and education; national, state and local program models, policy, regulations and evaluation. The course focuses on strategies and practice for engaging, empowering and collaborating with all families. Prerequisites: ESP 771 or admission into the M.Ed. Early Childhood Education program.

ESP 773 - Assessment for Young Children with Disabilities
Credit: 3
Focuses on subjective, objective, unstructured, and structured observations of young children with physical disabilities and disabilities of behavior, communication, learning, and development. Survey, review and critique of standardized and non-standardized tests as well as the use of test data in planning instruction. Prerequisites: ESP 771 or admission into the M.Ed. Early Childhood Education program.

ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
Credit: 3
Focuses on the identification of important components of early childhood education for young children with disabilities; critical evaluation for the suitability of various curriculum modes for various disabilities; critical evaluation of commercial materials; designing new curriculum models; and utilizing teacher-made materials. Prerequisites: ESP 771

ESP 775 - Strategies for Early Childhood Special Education
Credit: 3
Focuses upon development of behavioral objectives, task analysis, and grouping and regrouping of children. Includes behavior modification, precision teaching, interaction analysis and microteaching procedures. Consideration of modifications of classroom physical and learning environments, reinforcement patterns, and questioning styles, etc. Prerequisites: ESP 771 or admission into the M.Ed. Early Childhood Education program.

ESP 776 - Strategies for Working with Infants and Toddlers in Early Childhood Special Education
Credit: 3
Focus is on research based practices, practical problems, and issues pertaining to the effectiveness of various interventions and strategies used with infants and toddlers (0-3) with special needs. Prerequisites: ESP 771

ESP 777 - Assistive Technology Strategies for Young Children
Credit: 3
Emphasizes the selection and implementation of assistive technology for young children with and without disabilities. Prerequisites: ESP 701 and ESP 748

ESP 778 - Behavior Management for Early Childhood
Credit: 3
Provides a background in applied behavior analysis and positive behavior support, with a focus on the application of behavior support for young children and their families. Future service providers receive important knowledge and skills for implementing positive, preventive and function-based interventions in school, home and community environments. Prerequisites: ESP 771

ESP 779 - Early Intervention Service Coordination
Credit: 3
Provides content related to staffing patterns in programs for young children with disabilities; organization and implementation of training to meet identified needs of varied paraprofessionals and professionals; supervisory and consultive roles; and budget and fiscal matters. Prerequisites: ESP 771 or consent of instructor.

ESP 780 - Field Experience in Early Childhood Special Education - Infancy
Credit: 3 or 6
Intensive 15-week full- or part-time early intervention experience with high risk children and infants with disabilities and their families. Experience includes working with children below age three years in individual and small group activities, planning and implementing Individual Family Service Plans, and exploring community resources. Prerequisites: Consent of instructor.
ESP 781 - Field Experience in Early Childhood Special Education
* Preschool/Kindergarten
Credits 8
Intensive 15-week full- or part-time supervised teaching experience with young children with disabilities and their families. Experience includes working with children three to six years of age in individual, small and large group activities, planning and implementing Individualized Program Plans, and exploring community resources. Prerequisites: Consent of instructor.

ESP 782R - Professional Seminar in Special Education
Credits 3
Perceptions of exceptionality by a variety of interdisciplinary personnel. Prerequisites: Doctoral status or consent of instructor.

ESP 783R - Leadership Seminar in Special Education
Credits 3
Teaches and empowers participants to become highly effective leaders in the field of special education. Current leadership paradigms and their application to a variety of professional roles in special education explored. Prerequisites: ESP 782R

ESP 784 - Seminar in Advanced Special Education Technology
Credits 3
In-depth analysis concerning the impact of technology on persons with disabilities. Includes analysis and synthesis of research, local, state, and national policies and initiatives; resource allocations; funding issues; and the use of technology in higher education special education. Prerequisites: ESP 782R

ESP 785 - Issues, Trends and Futures in Special Education
Credits 3
Concepts and techniques which facilitates students' abilities in issue analysis, issue resolution, trend impact analysis, and futures formulations. The latter includes evaluations of possibilities, probabilities, and preferences in creating the future. Prerequisites: ESP 782R

ESP 786 - Legal and Political Issues in Special Education Programming
Credits 3
Analysis of federal, state, and local statutes, policies and titles which affect the funding and direction of programs for exceptional children. Impact of special education from social, political, and economic perspectives.

ESP 787 - Philosophical Perspectives in Special Education
Credits 3
Emphasis on the sociocultural, epistemological, teleological, and ethical implications of special education programs. Prerequisites: ESP 782R

ESP 788 - Single Subject Methods in Special Education
Credits 3
Overview of methods for evaluating the effectiveness of individual educational interventions and curricula for students with disabilities. Factors which determine when and under what conditions it is appropriate to employ different assessment strategies. Prerequisites: ESP 782R and EPY 721; and EPY 722 or KIN 751 or consent of instructor

ESP 789 - Grant Writing for Human Services
Credits 3
History and pragmatics of grant proposal writing, management, and evaluation for federal, state and philanthropic support of research, demonstration programs, and personnel preparation in special education and related services. Prerequisites: ESP 782R

ESP 791 - Proposal Design and Analysis
Credits 3
Formative and summative research considerations and applications, with emphasis upon practitioner-relevant proposal development, research design, and interpretive critical analyses. Prerequisites: ESP 782R, EPY 721, ESP 788, ESP 794, and EPY 722 or KIN 751 or consent of instructor.

ESP 793 - Advanced Field Experience in Special Education
Credits 3 – 6
Field-relevant applications of administrative diagnostic-prescriptive and research content to practical working situations. Prerequisites: Consent of instructor.

ESP 794 - Internship in Special Education
Credits 3 – 6
Structured internship experiences related to (a) conducting research within the field of special education and/or early childhood education, (b) teaching university courses within the Department of Special Education, or (c) the administration of special education and/or early childhood programs. Prerequisites: ESP 782R, EPY 721, ESP 788, and EPY 722 or KIN 751 or consent of instructor.

ESP 794B - Internship in Special Education Teaching
Credits 3
Structured internship experiences related to teaching university courses within the Department of Special Education. Prerequisites: ESP 782R, ESP 785 or consent of instructor.

ESP 796 - Dissertation Prospectus
Credits 3
Development of appropriate field-relevant topics as a preface to dissertation writing. Prerequisites: ESP 782R, EPY 721, KIN 751, ESP 791, and ESP 788

ESP 798 - Professional Paper in Special Education
Credits 2

ESP 799 - Dissertation
Credits 3 – 12
Practitioner-relevant thesis covering significant special educational topics, with appropriate applications of demonstration, research and/or model formation. Notes: 3-12 credits in increments of three. Prerequisites: ESP 796

TESLR 651 - Theories of Second Language Acquisition
Credits 3
Current philosophies and approaches to second language acquisition and instruction; attention to sociocultural influences.

TESLR 652 - TESL Methods and Materials
Credits 3
Methods and materials for teaching English as a second language (ESL). Design, implement, prepare, and evaluate ESL materials. Prerequisites: TESL 751.

TESLR 653 - TESL Curriculum
Credits 3
Principles of curriculum organization, development, and adaptation of TESL curriculum. Prerequisites: TESL 752 or concurrent enrollment, consent of instructor.

TESLR 654 - TESL Assessment Procedures
Credits 3
Assessment of ESL students; selection of appropriate ESL assessment instruments, their administration, scoring, and interpretation. Prerequisites: TESL 752 or concurrent enrollment, consent of instructor.
Teaching and Learning

The Department of Teaching and Learning offers graduate degrees in education at the master’s, specialist, and doctoral levels. All Teaching and Learning graduate programs are aimed at providing the professional experiences required by teachers, field supervisors, curriculum specialists, adult educators, and future professors of education who are dedicated to school improvement.

The Ph.D. - Curriculum & Instruction is intended for professional educators who desire to extend and advance knowledge in the theory and practice of education as university professors and researchers. The completion of this degree will enable individuals to become skilled researchers and mentors of university students, as well as leaders in school districts and community agencies.

The Ed.D. - Curriculum & Instruction is intended for professional educators who desire to extend and advance their studies in the theory and practice of education. The completion of this degree will enable individuals to become members of university and college faculties but is particularly suited for individuals in leadership roles within school districts and community agencies.

A separate and unique Ph.D. - Teacher Education is designed for professional educators who have an interest in becoming practitioner-oriented scholars in teacher education and who are interested in teacher education as a content area for research. Completing this degree will enable individuals to answer the national call for teacher educators and researchers in this field. The program is one of only a few in the nation devoted to teacher education.

The Alternative Route to Licensure (ARL)-Graduate Licensure Program (GLP) is a graduate program in the Department of Teaching and Learning leading to an elementary or secondary teaching license with the option for a master of education (M.Ed.) degree. The ARL-GLP program is designed for individuals who hold a bachelor’s degree in a field other than education and aspire to become elementary or secondary teachers.

The Educational Specialist - Curriculum & Instruction (Ed.S.) degree program is designed for advanced graduate work beyond the master’s degree. The completion of this degree will enable educators to pursue careers as curriculum developers, staff development specialists, school district administrators, and educational consultants.

P.G. Schrader, Ph.D., Chair
Hasan Deniz, Ph.D., Coordinator of Doctoral Programs (Ph.D., Ed.D. and Ed.S.)
Micah Stohlmann, Ph.D., Graduate Coordinator (M.Ed. and M.S.)

Teaching and Learning Faculty

Chair
Schrader, P.G. - Full Graduate Faculty Professor; B.S., M.A., Ph.D., University of Connecticut. Rebel since 2003.

Associate Chair

Shih, Jeffrey - Full Graduate Faculty Professor; B.A., University of California, Berkeley; Ph.D., University of California, Los Angeles. Rebel since 1999.

Doctoral Coordinators
Boone, Randall A. - Full Graduate Faculty Professor; B.S., M.S., University of Central Arkansas; Ph.D., University of Oregon. Rebel since 1991.

Graduate Coordinator
Olson, Travis A. - Full Graduate Faculty Associate Professor; B.S., M.S., Western Illinois University; Ph.D., University of Missouri. Rebel since 2009.

Graduate Faculty
Bickmore, Steven T. - Full Graduate Faculty Associate Professor; B.A., Brigham Young University; M.A., University of Utah; Ph.D., University of Georgia. Rebel since 2015.
Clark, Christine - Full Graduate Faculty Professor; B.A., Franklin and Marshall College; M.Ed., Ed.D., University of Massachusetts, Amherst. Rebel since 2007.
Cole, Merryn L. - Full Graduate Faculty Assistant Professor; B.S., University of Wisconsin-Platteville; M.S., University of Wisconsin-Whitewater; Ph.D. University of Kentucky. Rebel since 2017.
Deniz, Hasan - Full Graduate Faculty Professor; B.S., Dokuz Eylul University in Turkey; M.S., Ph.D., Indiana University. Rebel since 2007.
Grove, Karen - Associate Graduate Faculty Associate Faculty in Residence; B.A.E., Wayne State College; M.S., Ph.D., University of Nevada Las Vegas. Rebel since 2006.
Grubaugh, Steven J. - Full Graduate Faculty Professor; B.A., California State University, Sonoma; M.A., Ed.D., University of Northern Colorado. Rebel since 1991.
Gordon, Howard R. - Full Graduate Faculty Professor; Diploma, School of Agriculture, Jamaica, West Indies; B.S. and M.S., Tuskegee University; Ed.D., Virginia Polytechnic Institute and State University. Rebel since 2008.
Hartley, Kendall - Full Graduate Faculty Associate Professor; B.S., Ph.D., University of Nebraska-Lincoln; M.S., University of Iowa. Rebel since 1999.
Jackson, Isha - Full Graduate Faculty Assistant Professor; B.A., M.Ed., Arizona State University; Ph.D. Teachers College, Columbia University. Rebel since 2017.
Ladd, Sophie - Associate Graduate Faculty Assistant Faculty in Residence; B.S., University of Nevada, Reno. M.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2012.
Levitt, Gregory A. - Full Graduate Faculty Professor; B.A., Capitol University; M.A., Ohio State University; Ph.D., Ohio State University. Rebel since 2001.
Lin, Emily S.Y. - Full Graduate Faculty Professor; B.Ed, M.A., University of British Columbia; Ph.D., University of Toronto. Rebel since 2002.
Liu, Katrina Yan - Full Graduate Faculty Assistant Professor; B.S., Hunan Normal University; M.Ed., Beijing Normal University; Ph.D., University of Wisconsin-Madison. Rebel since 2015.
Marrun, Norma A. - Full Graduate Faculty Assistant Professor; B.A., San Jose State University; M.A., University of Utah; Ph.D., University of Illinois, Urbana-Champaign. Rebel since 2016.
McCarthy, Jane - Full Graduate Faculty Professor; B.A., Douglass College-Rutgers; M.S., Florida State University, Tallahassee; Ed.D., University of Houston. Rebel since 1991.
McCready, Michael P. - Fully Graduate Faculty Assistant Professor;
Conditional Licensure Certificate For Elementary Teaching

Plan Description

The Conditional Licensure Certificate for Elementary Teaching program is a graduate certificate program designed for individuals who want to acquire elementary school teaching knowledge, skills and dispositions to meet the needs or demands of teaching in elementary schools. The certificate program is suitable for students with no prior elementary background.

The certificate provides candidates with meeting conditional licensure course requirements so that they may eligible for hire in Nevada. Please note that in order to be eligible for hire in Nevada, candidates must also meet testing and other requirements beyond this coursework.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Each applicant for admission to the Graduate Certificate in Elementary Teaching program must comply with Graduate College requirements for admission. In addition to meeting the requirements of the Graduate College, applicants must also meet the requirements establish by the Department of Teaching and Learning:

1. Hold at least a Bachelor's degree in a field other than education.
2. Pass the Praxis Core (Reading, Writing, and Math).
3. Be accepted to the UNLV Graduate College.
4. Must pass Praxis II.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Core Courses – Credits: 12

- CIE 508 - Classroom Management Elementary Education
- CIE 601 - Elementary Teacher Development Seminar
- CIL 542 - Literacy Instruction I
- CIL 621 - Assessment in Literacy
Certificate Requirements

1. Acceptance to the Conditional Licensure Certificate for Elementary Teaching program.
2. Completion of 12 Credit hours in the Certificate required courses with an overall GPA of 3.0.
3. Students in certificate programs would be subject to the continuous enrollment policy. Non-compliance to this enrollment policy will result in the separation from the certificate program.
4. No more than one grade of less than B- will be permitted in the Certificate Program of Study.

Plan Certificate Completion Requirements

1. The Certificate program requires all coursework as outlined on the Certificate Program of Studies for a total of 12 semester credit hours (in the Certificate required courses). Students must complete a minimum of 12 credit hours of Graduate Certificate in Elementary Teaching program courses.
2. Students must earn a “B” or better on the primary assignments.
3. A grade point average of at least 3.00 for course work required for the certificate. No more than one course with a grade lower than a B- will be permitted in the Certificate Program of Study.
4. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. A student with a grade below a C will be required to retake the course. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in separation from the program. A student with two grades of C or lower will be dropped from the program.
5. Students in the certificate program would be subject to the continuous enrollment policy. They would have to enroll in at least six credits each in consecutive semesters (including summer).
6. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Conditional Licensure Certificate For Secondary Teaching

Plan Description

The Conditional Licensure Certificate for Secondary Teaching program required coursework will adhere to the InTASC standards enacted by CCSSO (2011) and/or the standards enacted by each national association of the content area. Partnerships involves field placement and mentoring.

The certificate provides candidates with meeting conditional licensure course requirements so that they may eligible for hire in Nevada. Please note that in order to be eligible for hire in Nevada, candidates must also meet testing and other requirements beyond this coursework.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Each applicant for admission to the Graduate Certificate in Secondary Teaching program must comply with Graduate College requirements for admission. In addition to meeting the requirements of the Graduate College, applicants must also meet the requirements establish by the Department of Teaching and Learning:

1. Hold at least a Bachelor's degree in a field other than education.
2. Pass the Praxis Core (Reading, Writing, and Math).
3. Be accepted to the UNLV Graduate College.
4. Must pass Praxis II in appropriate subject areas (eg., English, Math, Science, etc.).

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Core Courses – Credits: 9

- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management

Secondary Subjects Courses – Credits: 3

Complete 3 credits from the following list of courses:
Certificate Requirements

1. Acceptance to the Conditional Licensure Certificate for Secondary Teaching program.
2. Completion of 12 Credit hours in the Certificate required courses with an overall GPA of 3.0.
3. Students in certificate programs would be subject to the continuous enrollment policy. Non-compliance to this enrollment policy will result in the separation from the certificate program.
4. No more than one grade of less than B- will be permitted in the Certificate Program of Study.

Plan Certificate Completion Requirements

1. The Certificate program requires all coursework as outlined on the Certificate Program of Studies for a total of 12 semester credit hours (in the Certificate required courses). Students must complete a minimum of 12 credit hours of Graduate Certificate in Secondary Teaching program courses.
2. Students must earn a “B” or better on the primary assignments.
3. A grade point average of at least 3.00 for course work required for the certificate. No more than one course with a grade lower than a B- will be permitted in the Certificate Program of Study.
4. Students with unsatisfactory progress toward the certificate requirements are subject to dismissal. A student with a grade of C or lower in any of the required courses will be put on probation for one semester. A student with a grade below a C will be required to retake the course. Conditions and deadlines for the removal of probation will be specified. Failure to meet the condition will result in separation from the program. A student with two grades of C or lower will be dropped from the program.
5. Students in the certificate program would be subject to the continuous enrollment policy. They would have to enroll in at least six credits each in consecutive semesters (including summer).
6. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Doctor of Education - Curriculum & Instruction

Plan Description

This program aims to cultivate educational leaders through providing innovative solutions to complex problems of practice. The completion of this degree will enable individuals to become members of university faculties but particularly suited for positions as leaders in school districts and community agencies. Upon completion of the program, graduates will:

- Have an understanding of the theoretical and historical foundations of education.
- Demonstrate knowledge and synthesis of major research in teaching and schooling.
- Demonstrate knowledge and research application in solving a complex problem of practice.
- Understand and apply the major tenets of research design and analysis spanning quantitative, qualitative, and evaluation research methods.
- Demonstrate the ability to successfully design, defend, and complete an extended educational study addressing a complex problem of practice resulting in a defensible traditional dissertation or a multiple article dissertation.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Application for the Curriculum and Instruction Ed.D. in the Department of Teaching and Learning is accomplished through the UNLV Graduate College online application process.

Specific admission criteria for the Ed.D. – Curriculum and Instruction include:

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
2. Hold a master's degree from an accredited program in an area closely related to the chosen field of specialization. Normally, 18 semester hours in education are required. Have a grade point average of 3.0 of higher in all graduate level coursework. *Please note that one third of the total program hours may be transferred from another accredited doctoral program.
3. Have completed a minimum of 2 years of successful professional educational experience upon entrance to the program.
4. Obtain three letters of recommendation from individuals who can specifically address the applicant's
potential for success in the doctoral program. These letters of recommendation will be requested and submitted through the Graduate College online application system. One of the letters must be from a university faculty member addressing your past academic success and future potential in a doctoral program.

6. Submit one set of official transcripts from all previously attended colleges and universities as requested in the Graduate College online application. You may upload unofficial transcripts via the online application as a supplement if you have the documents in a digital computer file (e.g., PDF). Unofficial transcripts do NOT substitute for the official documents.

7. Submit Graduate Record Examination (GRE) scores for the General Exam. The scores should be sent directly to the Doctoral Studies Office in the Department of Curriculum and Instruction. Applicants are encouraged to provide self-reported scores for the GRE in the Standardized Tests section of the Graduate College online application.

8. Submit a Personal Statement via the Graduate College online application that addresses in detail:
   a. Reasons for pursuing a doctorate in education
   b. Expectations concerning the doctoral program
   c. Identify a problem of practice and describe it.
   d. The name of a faculty member in the department with whom you would like to work [optional]

9. Demonstrate oral communication skills through an interview conducted by members of the C&I graduate faculty. Out-of-state applicants must contact the Coordinator of Doctoral Studies directly to make alternate arrangements to the on-campus interview.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 60

**Course Requirements**

T&L Required Courses - Credits: 6
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses - Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Complete two additional advisor approved research courses
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 720: Research Design in Education
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 729 - Qualitative Case Study Research
- EPY 730 - Advanced Research Methods
- EPY 733 - Multivariate Statistics
- EPY 738 - Discourse Analysis
- EDW 768 - Grantsmanship in Education

Individual Specialization Courses - Credits: 15

Complete 5 advisor-approved courses. Individual specialization courses may include the courses below, but are not limited to the list below.
- EDW 719 - Leadership in Workforce Education and Development
- EDW 745 - Theories of Adult Learning
- EDW 746 - History and Development of Two Year Postsecondary Institution
- EDW 747 - Workforce Education Teaching
- EDW 749R - Evaluation of Workforce Education Programs
- EDW 763 - Readings in Postsecondary Education, Workplace Learning and Performance, and Workforce Education Leadership
- CME 600 - Multicultural Education
- CME 620 - Topics Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- CME 710 - Introduction to Cultural Studies in Education
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CIG 773 - Critical Literacies/Critical Pedagogies
- CIT 770 - Foundations in Technology & Learning
- CIT 772 - Technology in Teacher Education
- CIT 773 - Interaction Design
- CIT 774 - Behavioral Sciences & Technology
- CIT 775 - Affect & Technology
- CIT 776 - Emerging Technologies for Learning
- CIT 778 - Instructional Design
• CIL 772 - Cognitive Foundations of Literacy
• CIL 774 - Historical Foundations of Literacy Research and Instruction
• CIL 776 - Social and Political Issues in Literacy
• CIG 783 - Theory and Research in School Mathematics
• CIG 787 - Individual Instruction in Mathematics Education
• CIG 720 - Principles of Mathematics Learning
• CIG 777 - Principles of Learning Science
• CIG 784 - Theory and Research in School Science
• CIG 775 - Theoretical Frameworks for Science Education
• CIG 776 - Philosophical Foundations of Science Education
• CIG 760R - Inquiry into Teacher Education
• CIG 762 - Instructional Strategies and Learning to Teach in Higher Education
• CIG 763 - Advanced Research in Teaching and Teacher Education

Internships - Credits: 15

Three credits of CIG 791 should be taken during dissertation proposal completion.
• CIG 791 - Internship in Curriculum and Instruction

Dissertation - Credits: 12
• CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master's degree.
2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
3. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department website.
4. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
6. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process). Students may begin developing their qualifying examination questions and commence their qualifying exam upon completion of minimum program requirements and advisor approval.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
4. The student must also file a copy of the dissertation with the Teaching and Learning Department.

Doctor of Philosophy - Curriculum & Instruction

Plan Description

This course of study is for professional educators who desire to extend and advance knowledge in the theory and practice of education as university researchers or leaders in an array of other education-related settings, both in the United States and abroad. The completion of this degree will particularly enable individuals to become skilled researchers as members of university faculties.

Upon completion of the program, graduates will:
1. Have an understanding of the theoretical and historical foundations of education.
2. Demonstrate knowledge and synthesis of major research in teaching and schooling.
3. Demonstrate knowledge and research application in the area of emphasis: career & technical and post-secondary education (CTPE), cultural studies, international, and multicultural education (CSIEME), interaction and media sciences, literacy, mathematics education, and science education.
4. Demonstrate college-level teaching experience.
5. Understand and apply the major tenets of research design and analysis spanning quantitative and qualitative methods. Begin to disseminate findings in refereed journals.
Areas of research emphasis include:

Career & Technical and Postsecondary Education (CTPE) The Doctor of Philosophy (Ph.D.) - Curriculum and Instruction

with a Concentration in Career & Technical and Postsecondary Education (CTPE) is a research and professional leadership degree. It is designed to develop future leaders/educators who will make well-informed, theory-based, research-supported, and data-driven decisions related to planning, organizing, delivering and evaluating the many components and systems connecting education, work, and economic development. Program graduates typically seek research and teaching faculty positions in universities; administrative and policy positions in local, state and national education and other governmental agencies; instructional/curricular leadership positions within school districts; leadership and teaching positions in secondary, community and technical colleges, and training positions in a variety of adult education and training environments. Graduates will be prepared to assume leadership positions in Southern Nevada and throughout Nevada and the Nation.

Cultural Studies, International Education, and Multicultural Education (CSIEME) Cultural Studies is a highly interdisciplinary field, drawing on philosophy, literature, the arts, sociology, psychology, political science, technology, and media. Cultural Studies connects those scholars interested in examining and challenging relationships of power, culture, and knowledge. International Education is an umbrella term encompassing comparative education, transnational education, and pan-global indigenous studies. Included in these studies are a series of large-scale, cross-national comparisons in student achievement, teaching practice, curriculum, and educational policy. Multicultural Education is an instructional and pedagogical paradigm that integrates the history, cultural traditions, social norms, life experiences, and learned contributions that members of non-dominant groups have made to all aspects of local and global society, especially those aspects that are typically codified in PK-12 and higher education courses of study in the United States.

Interaction and Media Sciences The goal of our program is to enable students to become university faculty, researchers, instructional designers, and leaders in the growing field of educational technology. The focus of the program is on content, pedagogy, technology, and a wide range of associated issues. Students will develop expertise in critical analysis, deconstruction, and research on educational technology. The program will prepare students for a variety of professional careers related to teaching and learning in both academic and non-academic settings, such as K-12 schools, community colleges, universities, state and federal agencies, and private organizations.

Literacy Education Doctoral students in Literacy Education will be engaged in exploring relationships among language, literacy, culture and social justice. They will develop expertise in critical analysis and methodological approaches for conducting research on literacy teaching and learning (e.g.,

6. Demonstrate the ability to successfully design, defend, and complete an extended educational study resulting in a defensible dissertation.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Specific admission criteria for the PhD - Curriculum and Instruction include:

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

2. Hold a master's degree from an accredited program in an area closely related to the chosen field of specialization. Normally, 18 semester hours in education are required.

3. Have a grade point average of 3.0 or higher in all graduate level coursework. *Please note that one third of the total program hours may be transferred from another accredited doctoral program.
4. Have completed a minimum of 2 years of successful professional educational experience upon entrance to the program.

5. Obtain three letters of recommendation from individuals who can specifically address the applicant's potential for success in the doctoral program. These letters of recommendation will be requested and submitted through the Graduate College online application system. One of the letters must be from a university faculty member addressing your past academic success and future potential in a doctoral program.

6. Submit one set of official transcripts from all previously attended colleges and universities as requested in the Graduate College online application. You may upload unofficial transcripts via the online application as a supplement if you have the documents in a digital computer file (e.g., PDF). Unofficial transcripts do NOT substitute for the official documents.

7. Submit Graduate Record Examination (GRE) scores for the General Exam. The scores should be sent directly to the Doctoral Studies Office in the Department of Curriculum and Instruction. Applicants are encouraged to provide self-reported scores for the GRE in the Standardized Tests section of the Graduate College online application.

8. Submit a Personal Statement via the Graduate College online application that addresses in detail:
   a. Emphasis area of study
   b. Reasons for pursuing a doctorate in education
   c. Expectations concerning the doctoral program
   d. Potential areas of study
   e. The name of a faculty member in the department with whom you would like to work [optional]

9. Submit a written statement regarding when the residency requirement will be met (see the Doctoral Handbook. This statement should be uploaded via the Graduate College online application in the Supplementary Information section as an “Other Required Document.”

10. Demonstrate oral communication skills through an interview conducted by members of the C&I graduate faculty. Out-of-state applicants must contact the Coordinator of Doctoral Studies directly to make alternate arrangements to the on-campus interview.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

See Subplan Requirements below.

---

**Subplan I Requirements: Career & Technical and Postsecondary Education Track**

Total Credits Required: 60

**Course Requirements**

**T&L Required Courses – Credits: 6**
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

**Research Required Courses – Credits: 12**
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
  Complete two additional advisor approved research courses (6 credits)
- CIG 690 - Teachers as Action Researchers
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 720 - Research Design in Education
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 729 - Qualitative Case Study Research
- EPY 730 - Advanced Research Methods
- EPY 731 - Mixed Methods Research
- EPY 733 - Multivariate Statistics
- EPY 738 - Discourse Analysis

**Individual Specialization Required Courses – Credits: 15**
Select six of the following:
- EDW 719 - Leadership in Workforce Education and Development
- EDW 745 - Theories of Adult Learning
- EDW 746 - History and Development of Two Year Postsecondary Institution
- EDW 747 - Workforce Education Teaching
- EDW 749R - Evaluation of Workforce Education Programs
- EDW 763 - Readings in Postsecondary Education, Workplace Learning and Performance, and Workforce Education Leadership
- EDW 768 - Grantsmanship in Education

**Individual Specialization Elective Courses – Credits: 9**
Complete 9 credits of advisor-approved courses outside the CTPE program (e.g., Technology, learning and cognition, cultural studies, etc.) should be selected to broaden the student's knowledge and research procedures.

Applied Research and/or Instructional Practice – Credits: 6
Complete six credits of a combination of a research internship and/or a college teaching internship.

- EDW 735 - Practicum in Workforce Education
- CIG 791 - Internship in Curriculum and Instruction

Dissertation – Credits: 12
- CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master’s degree.
2. All coursework must be approved by the doctoral student's advisor.
3. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level;
4. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.
5. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.
6. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
7. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process). Students may begin developing their qualifying examination questions and commence their qualifying exam upon completion of minimum program requirements and advisor approval.
8. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Cultural Studies, International Education, and Multicultural Education Track
Total Credits Required: 60

Course Requirements

T & L Required Courses – Credits: 6
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses – Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
  Complete two additional advisor approved research courses.
- CIG 690 - Teachers as Action Researchers
- EPY 719 - Advanced Qualitative Research
- EPY 720 - Research Design in Education
- EPY 729 - Qualitative Case Study Research
- EPY 730 - Advanced Research Methods
- EPY 738 - Discourse Analysis
- EPY 768 - Problem Solving and Reasoning

Individual Specialization Required Courses – Credits: 9
- CME 640 - Theory and Research Multicultural Education
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CME 710 - Introduction to Cultural Studies in Education

Applied Research and Practice – Credits: 6
- CIG 791 - Internship in Curriculum and Instruction

Individual Specialization Elective Courses – Credits: 15
Complete 15 credits of advisor-approved courses including those from the list below:
- CME 600 - Multicultural Education
- CME 620 - Topics Multicultural Education
- CIG 773 - Critical Literacies/Critical Pedagogies

Dissertation – Credits: 12
- CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master’s degree.
2. All coursework must be approved by the doctoral student's advisor.
3. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
4. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.

5. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.

6. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

7. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process).

8. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Interaction and Media Sciences Track

Total Credits Required: 60

Course Requirements

T & L Required Courses – Credits: 6

- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses – Credits: 15

- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
- CIT 780 - Educational Technology Research and Practice

Complete two additional advanced research courses approved by an advisor.

- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 720 - Research Design in Education
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 730 - Advanced Research Methods
- EPY 733 - Multivariate Statistics
- EPY 738 - Discourse Analysis

Content Area Required Courses – Credits: 18

- CIT 770 - Foundations in Technology & Learning
- CIT 773 - Interaction Design
- CIT 774 - Behavioral Sciences & Technology
- CIT 775 - Affect & Technology
- CIT 776 - Emerging Technologies for Learning
- CIT 778 - Instructional Design

Individual Specialization Elective Courses – Credits: 9

Complete 9 hours of advisor-approved courses within and/or outside the department.

Dissertation – Credits: 12

- CIG 799 - Dissertation

Degree Requirements

1. Complete a minimum of 60 credit hours beyond the master's degree.

2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.

3. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.

4. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.

5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

6. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process).

7. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 4 Requirements: Literacy Education Track

Total Credits Required: 60
Course Requirements

T & L Required Courses – Credits: 6
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses – Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
  Complete two additional advisor approved research courses.
- EPY 719 - Advanced Qualitative Research
- EPY 720 - Research Design in Education
- EPY 729 - Qualitative Case Study Research
- EPY 730 - Advanced Research Methods
- EPY 738 - Discourse Analysis
- EDW 768 - Grantsmanship in Education
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 733 - Multivariate Statistics

Individual Specialization Required Courses – Credits: 9
- CIL 772 - Cognitive Foundations of Literacy
- CIL 774 - Historical Foundations of Literacy Research and Instruction
- CIL 776 - Social and Political Issues in Literacy

Individual Specialization Elective Courses – Credits: 21
Complete 21 credits of advisor-approved courses within and/or outside the department to support applied research, practice, theory, and content that aligns with individual scholarly goals.

Dissertation – Credits: 12
- CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master's degree.
2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
3. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.
4. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
6. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process). Students may begin developing their qualifying examination questions and commence their qualifying exam upon completion of minimum program requirements and advisor approval.
7. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Mathematics Education Track
Total Credits Required: 60

Course Requirements

T & L Required Courses – Credits: 6
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses – Credits: 12
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction
  Complete two additional advisor approved research courses.
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 730 - Advanced Research Methods
- EPY 733 - Multivariate Statistics

Individual Specialization Required Courses – Credits: 9
- CIG 720 - Principles of Mathematics Learning
- CIG 783 - Theory and Research in School Mathematics
- CIG 787 - Individual Instruction in Mathematics Education
Applied Research and Practice/Internship – Credits: 6
- CIG 791 - Internship in Curriculum and Instruction

Individual Specialization Elective Courses – Credits: 15
Complete 15 credits of advisor-approved emphasis-area courses within and/or outside the department.

Dissertation – Credits: 12
- CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master's degree.
2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
3. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.
4. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
6. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process).
7. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Science Education Track
Total Credits Required: 60

Course Requirements
T & L Required Courses – Credits: 6
- CIG 761 - Theoretical Foundations of Education
- CIG 790 - Doctoral Research Seminar

Research Required Courses – Credits: 12
- EPY 716 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Complete two additional advisor approved research courses.
- EPY 719 - Advanced Qualitative Research
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 726 - Advanced Evaluation Research Methods
- EPY 730 - Advanced Research Methods
- EPY 733 - Multivariate Statistics
- EDW 768 - Grantsmanship in Education

Individual Specialization Required Courses – Credits: 9
- CIG 777 - Principles of Learning Science
- CIG 784 - Theory and Research in School Science
  Complete one additional advisor approved course.
- CIG 775 - Theoretical Frameworks for Science Education
- CIG 776 - Philosophical Foundations of Science Education

Individual Specialization Elective Courses – Credits: 15
Complete 15 credits of advisor-approved emphasis-area courses within and/or outside the department. Courses will be selected to broaden the student’s knowledge in areas related to student’s area of emphasis (e.g. science content courses with a BIO, CHE, PHY, ENV, GEO, GEY, ENG, AST, or SCI prefix, technology, learning and cognition, and cultural studies)

Dissertation – Credits: 12
- CIG 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the master's degree.
2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
3. Complete the residency requirement for the degree through one of the three options available as described in the current Doctoral Studies Guide on the department Web site.
4. Attend the Teaching and Learning Department Doctoral Colloquium held periodically throughout their years of study.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate
College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

6. Pass a written qualifying examination prior to commencing work on the dissertation proposal or dissertation (See the Doctoral Handbook for more detailed information on this process).

7. Submit a manuscript for a peer-reviewed publication.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must also file a copy of the dissertation with the Teaching and Learning Department.

Doctor of Philosophy - Teacher Education

Plan Description

The Ph.D. in Teacher Education in the Department of Teaching & Learning is projected for professional educators who have an interest in becoming practitioner-oriented scholars in teacher education and who are interested in teacher education as a content area for research. Completing this degree will enable individuals to answer the national call for teacher educators and researchers in this field. The program is one of only a few in the nation devoted to teacher education.

Upon completion of this program, graduates will be able to:

1. Demonstrate college-level teaching experience;

2. Connect theory and research related to teaching and learning to the practice of teaching in schools and to the practice of teaching university courses;

3. Design and conduct research using quantitative and qualitative methodologies with particular emphasis on applied research in the context of diverse schools.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

2. Hold a master's degree from an accredited program in an area closely related to the chosen field of specialization. Normally, 18 semester hours in education are required.

3. Have a grade point average of 3.0 of higher in all graduate level coursework. *Please note that one third of the total program hours may be transferred from another accredited doctoral program.

4. Have satisfactory teaching experience, preferably licensed.

5. Obtain three letters of recommendation from individuals who can specifically address the applicant's potential for success in the doctoral program. These letters of recommendation will be requested and submitted through the Graduate College online application system. One of the letters must be from a university faculty member addressing your past academic success and future potential in a doctoral program.

6. Submit one set of official transcripts from all previously attended colleges and universities as requested in the Graduate College online application. You may upload unofficial transcripts via the online application as a supplement if you have the documents in a digital computer file (e.g., PDF). Unofficial transcripts do NOT substitute for the official documents.

7. Submit Graduate Record Examination (GRE) scores for the General Exam. The scores should be sent directly to the Doctoral Studies Office in the Department of Teaching and Learning. Applicants are encouraged to provide self-reported scores for the GRE in the Standardized Tests section of the Graduate College online application.

8. Submit a Personal Statement via the Graduate College online application that addresses in detail:

   a. Reasons for pursuing a doctorate in teacher education

   b. Expectations concerning the doctoral program

   c. Potential areas of study within teacher education

   d. The name of a faculty member in the department with whom you would like to work [optional]
9. Submit a written statement regarding when the residency requirement will be met (see the Doctoral Handbook. This statement should be uploaded via the Graduate College online application in the Supplementary Information section as an “Other Required Document.”

10. Demonstrate oral communication skills through an interview conducted by members of the T & L graduate faculty. Out-of-state applicants must contact the Coordinator of Doctoral Studies directly to make alternate arrangements to the on-campus interview.

Once requirements are met, members of the T & L Graduate Faculty will evaluate all evidence for admission submitted by the applicant and then make their recommendations to the entire T& L faculty. The T & L faculty will make a recommendation to the Graduate College, and the Graduate College will post the decision letter to the student’s online application. Only complete applications will be considered.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

**Total Credits Required:** 60

**Course Requirements**

**Teacher Education Core Courses – Credits: 9**
- CIG 760R - Inquiry into Teacher Education
- CIG 761 - Theoretical Foundations of Education
- CIG 762 - Instructional Strategies and Learning to Teach in Higher Education

**Advanced Teacher Education Courses – Credits: 6**
- CIG 763 - Advanced Research in Teaching and Teacher Education
- CIT 772 - Technology in Teacher Education

**Cognition Course – Credits: 3**

Complete one of the following courses:
- EPY 767 - Human Learning and Cognition
- CIL 772 - Cognitive Foundations of Literacy

**Internship Course – Credits: 6**
- CIG 791 - Internship in Curriculum and Instruction

**Research Courses – Credits: 6**
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

**Additional Research Course – Credits: 6**

Complete two additional research courses from the list below or any two advisor approved courses.

- EPY 710 - Survey Methods and Design
- EPY 716 - Evaluation Research Methods
- EPY 719 - Advanced Qualitative Research
- EPY 722 - Inferential Statistics and Experimental Design
- EPY 723 - Psychometrics I
- EPY 724 - Psychometrics II
- EPY 726 - Advanced Evaluation Research Methods
- EPY 729 - Qualitative Case Study Research
- EPY 731 - Mixed Methods Research
- EPY 732 - Multiple Regression
- EPY 733 - Multivariate Statistics
- EPY 734 - Structural Equation Modeling
- EPY 738 - Discourse Analysis
- EPY 746 - Multilevel Statistical Models: Theory and Application
- SOC 705 - Qualitative Methods
- SOC 774 - Seminar in Feminist Theories and Research
- PSY 707 - Research Methods
- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II

**Elective Courses – Credits: 12**

Complete four advisor approved elective courses. Optional courses include:

**Teacher Education**
- CIG 706 - Mentoring Strategies to Improve Teaching
- CIG 768 - Advanced Curriculum Studies
- CIG 770 - Current Trends and Issues in Education
- CIG 780 - Research on Teaching and Schooling
- CIG 782 - School Climate
- CME 710 - Introduction to Cultural Studies in Education
- CIG 786 - Individual Instruction in Education
- CIG 792 - Doctoral Dissertation Proposal

**Career and Technical Education**
- EDW 745 - Theories of Adult Learning
- EDW 768 - Grantsmanship in Education
Cultural Studies, International Education, and Multicultural Education

- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CIL 772 - Cognitive Foundations of Literacy
- CME 700 - Social Justice Education
- CME 740 - Intergroup Dialogue Facilitation
- CME 770 - Critical Inquiry and Praxis

Science Education

- CIG 775 - Theoretical Frameworks for Science Education
- CIG 776 - Philosophical Foundations of Science Education
- CIG 777 - Principles of Learning Science
- CIG 784 - Theory and Research in School Science

Interaction and Media Studies

- CIT 770 - Foundations in Technology & Learning
- CIT 774 - Behavioral Sciences & Technology
- CIT 775 - Affect & Technology
- CIT 776 - Emerging Technologies for Learning
- CIT 778 - Instructional Design
- CIT 780 - Educational Technology Research and Practice

Dissertation – Credits: 12
  - CIG 799 - Dissertation

Degree Requirements

1. Complete a minimum of 60 hours of study beyond the master's degree.
2. Maintain an overall GPA of 3.00 or higher for all course work taken at the doctoral level.
3. Complete a three-credit internship teaching a university course under the supervision and mentoring of a faculty member. An additional three-credit internship will be completed and will be designed in consultation with the student and initial advisor or the dissertation committee chair.
4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete the residency requirement for the degree. The residency experience incorporates, to the greatest extent possible, a spirit of full-time attention from students to their studies during the residency period. Selection of the criteria for fulfilling the residency requirement is under the auspices of the student's committee with oversight of the Doctoral Studies Coordinator and Doctoral Studies Committee. A formal proposal for the residency period is required from the student. The PhD residency experience will incorporate a focus on activities associated with success in academe (e.g., scholarly writing, classroom and online university teaching, research methods and opportunities, and external funding). The residency period will encompass at least two consecutive terms (may include one summer term).
6. Attend the T & L Doctoral Colloquia held periodically throughout the years of study.
7. Complete the residency requirement (see Doctor of Philosophy – Teacher Education Program Handbook).
8. Pass a written qualifying examination taken before commencing with the dissertation.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
4. The student must also file a copy of the dissertation with the Teaching and Learning Department.
Education Specialist - Curriculum & Instruction

Plan Description

The Ed.S. degree program is designed for individuals who possess the ability and desire to pursue advanced graduate work beyond the master's level.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to the credentials required by the Graduate College, admission to the Ed.S. program in Curriculum and Instruction also requires the students:

1. Hold a master's degree in education or in a field related to education.
2. Present evidence of a minimum of two years of professional experience appropriate to the selected concentration.
3. Have a minimum GPA of 3.00 in all graduate-level course work.
4. Submit an on-line application to the Graduate College.
5. Submit satisfactory test results from the Graduate Record Exam (GRE General Exam) to the C&I Department.
6. The online application must include a one- to two-page statement of professional goals. The names with contact information of two professional references and intended emphasis area should be included in the statement.
7. Two sets of official transcripts from all previously attended colleges and universities. One set of transcripts must be sent directly to the Graduate College; the other set must be sent directly to the T&L main office.

Applicants will be evaluated on scholastic record, professional accomplishments, and potential for advanced studies. Applicants may be asked to meet with a Graduate Admissions Committee for a formal interview.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 33

Course Requirements

Research Required Courses – Credits: 6

Complete two of the following courses:

- CIG 790 - Doctoral Research Seminar
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Area of Emphasis Courses – Credits: 15

Complete 15 credits of advisor-approved emphasis-area courses within and/or outside the department. Students may fulfill these credits via directed study.

Cognate Courses – Credits: 9

Complete 9 credits of advisor-approved courses in an area of study which enhances the major area of emphasis. Cognate courses may be taken in the Department of Teaching and Learning or other departments at UNLV.

Culminating Experience – Credits: 3

- CIG 698 - Curriculum and Instruction Professional Paper/Project

Degree Requirements

1. Students must complete a minimum of 33 credit hours with a minimum GPA of 3.00.
2. Students must complete a written comprehensive examination and/or oral presentation of a special project or professional paper.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a culminating experience.
Graduate Certificate in Career and Technical Education

Plan Description

The Graduate Certificate in Career and Technical Education is ideal for those who have specific occupation knowledge and skills and would like to seek professional advancement in the field of career and technical education; or those who require professional knowledge courses for Nevada CTE certification. The Graduate Certificate in Career and Technical Education combines career and technical education teaching methodology with practical knowledge of curriculum development and techniques for advising student organizations. By completion of the Certificate, students will have the knowledge and skills for curriculum development and instruction implementation in their occupational area.

This certificate may be pursued and completed concurrently with a degree program or as a stand-alone certificate. Graduate degree-seeking students who are already admitted to and pursuing degrees in other disciplines (outside teaching and learning) are eligible to apply for the Graduate Certificate in Career and Technical Education.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

• Students must have a Bachelor's degree in any field to apply for this certificate.
• Qualified students must apply for admission to the Graduate College via the online application portal.
• All minimum Graduate College requirements MUST be met.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits: 12

Course Requirements

Required Courses – Credits: 12

• EDW 539 - Methods of Teaching in Workforce Education
• EDW 571 - Advising Career and Technical Student Organizations (CTSO)
• EDW 575 - Performance-Based Education
• EDW 733 - Workforce Education Curriculum and Program Development

Certificate Requirements

Students must earn an overall GPA of 3.0 or higher in all courses for the certificate.

Plan Certificate Completion Requirements

Certificate will be awarded upon the student's successful completion of all certificate requirements.

Graduate Certificate In Global Teaching

Plan Description

The Graduate Certificate for Global Teaching prepares students with the knowledge, skills and dispositions to teach in International Baccalaureate World schools in Nevada and around the world.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants must hold a Bachelor's Degree from an accredited University.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Plan Requirements

Total Credits Required: 20

Course Requirements

Required Courses – Credits: 20

• CIG 605 - Elementary and Secondary Methods and Assessments for Global Teaching
• CIG 608 - Field Experience in International Baccalaureate School
• CIG 609 - Residency in International Baccalaureate School
• CIG 681 - Curriculum Implementation and Innovation
• CIG 688 - Teaching and Learning Seminar

Certificate Requirements

Complete all program requirements with a minimum 3.5 GPA.

Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Graduate Certificate In Global Teaching Research

Plan Description
The Graduate Certificate in Global Teaching Research has a strong focus on systematic and rigorous educational inquiry. The certificate program requires participants to ground their inquiry in issues relating to international education. Participants will have the opportunity to identify their own areas of inquiry within the context of their current practice and will critically engage with the relevant bodies of literature and contemporary research. Participants will design and conduct one or more research studies.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

1. Applicants must hold a bachelor's degree from an accredited university and hold an International Baccalaureate Certificate in Global Teaching or equivalent.

2. CV/Resume
All applicants must review and follow the Graduate College Admission and Registration Requirements.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12
- CIG 686 - Teachers and Professionals as Change Agents
- CIG 688 - Teaching and Learning Seminar
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods

Certificate Requirements
Complete all program requirements with a minimum 3.5 GPA.

Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Leadership for Teachers and Professionals

Plan Description
The purpose of the Leadership for Teachers And Professionals Certificate is to develop building-level leaders who want to lead without leaving the classroom. Leaders will be prepared to assist their schools with data literacy, peer coaching, and working with urban student populations.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12
- CIG 603 - Urban Education
- CIG 684 - Data Literacy for Teacher and Professional Leaders
- CIG 685 - Peer Assistance and Review
- CIG 687 - Coaching High-Leverage Field Practices

Certificate Requirements
Accepted students must earn a "B" or better in all courses.

Certificate Completion Requirements
Certificates will be awarded upon students’ successful completion of all certificate requirements.
Graduate Certificate in Multicultural Education

Plan Description
The Graduate Certificate in Multicultural Education (GCME) targets full- or part-time graduate students who seek academic preparation in multicultural education in order to build/improve their capacity for working well/effectively with diverse populations.

There are two options in this certificate: one is a non-recertification option, the other is a recertification option. Both options target full- or part-time graduate students who have completed an undergraduate teacher education licensure program, and/or an alternative route to licensure program, in which multicultural education coursework (or related content (e.g., cultural diversity, cultural competency, etc.) was not a significant part of the program to build/improve their capacity for working well/effectively with diverse PK-12 student populations and their families.

The difference between the non-recertification and recertification options is one course; certificate students who do not want or do not yet have a Nevada teaching license, or who have been licensed teachers in the state of Nevada for less than 5 years, will take the CME 600 core multicultural education course, and those who have been licensed for 5 years or more and need to fulfill the state relicensure requirements will take the CME 610 core multicultural education course for teacher relicensure [students should opt for CME 610/the recertification option in consultation with the Nevada Department of Education and based on when they need to renew their license]. Through passage of AB234, all state licensed teachers are required to take 6 additional graduate credits after 5 years of teaching to qualify for licensure recertification. Of these 6 credits, 3 must be in multicultural education; accordingly, the Graduate Certificate in Multicultural Education is also a pathway for in-service professionals opting to pursue that licensure recertification to secure one of the course requirements for it.

Though the GCME targets full- or part-time graduate students who have completed an undergraduate teacher education licensure program, and/or an alternative route to licensure program, students need not be licensed to take the certificate but should be aware that this is not a licensure program.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
All applicants must review and follow the Graduate College Admission and Registration Requirements.
Qualified students must apply for admission to the Graduate College via the online application. All minimum Graduate College requirements MUST be met. In addition to the Graduate College requirements, GCME applicants must also complete and submit a résumé/vita and a 250-750 word personal statement detailing their interest in the GCME.
Applications for admission into the Graduate Certificate in Multicultural Education are accepted for any term. Acceptance may be limited based on course enrollments.
Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 12
Course Requirements
Required Courses – Credits: 9
- CME 620 - Topics Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- CME 630 - Multicultural Curriculum Transformation
Elective Course – Credits: 3
Complete one of the following courses:
- CME 600 - Multicultural Education
- CME 610 - Multicultural Education For Teacher License Recertification
Certificate Requirements
Accepted students must earn a B or better in all courses.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Graduate Certificate in Online Teaching and Training

Plan Description

The certificate in Online Teaching and Training is offered as a sequence of courses that includes both conceptual and strategic implementation foci. The audience will include K-12 teachers, university instructors and professors, and business and industry trainers. Completion of the certificate program will provide educators and trainers with improved ability in their online teaching, training, and professional development.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12

• CIT 609 - Internet for Learning
• CIT 643 - Designing Digital Materials for Education
• CIT 647 - Creating Online Learning Environments
• CIT 648 - Issues and Methods in Online Learning

Certificate Requirements

This certificate is not a degree. Twelve credit hours in the specified courses with a B or better grade is required.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Social Justice Studies

Plan Description

The graduate certificate in Social Justice Studies (SJS) targets full- or part-time graduate students who seek professional preparation commensurate with the relevant Transformative Standards for Social Justice, Peace, and Environmental Education codified by Andrzejewski, Baltodano, & Symcox in 2009.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Qualified students must apply for admission to the Graduate College via the online application.
2. Applicants must complete and submit a résumé / vita
3. Applicants must complete and submit a 250-750 word personal statement detailing their interest in the SJS certificate.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 18

Course Requirements

Required Courses – Credits: 3

• CME 700 - Social Justice Education

Required Electives – Credits: 6

Sociology Requirement (choose one of the following):

• SOC 741 - Graduate Seminar in Social Stratification
• SOC 755 - Social Movements and Social Change
• SOC 776 - Seminar in Political Sociology
• SOC 770 - Racial and Ethnic Relations

Gender and Sexuality Studies Requirement (choose one of the following):

• WMST 673 - Chicana Feminism and Experience
• WMST 676 - Feminism and Activism
• WMST 677 - Critical Race Feminism
Elective Courses – Credits: 9
Choose from the following list of courses (no more than 6 credits in the same content area):

- AAS 636 - Politics of Racial Ambiguity
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CME 710 - Introduction to Cultural Studies in Education
- CIG 773 - Critical Literacies/Critical Pedagogies
- CME 600 - Multicultural Education
- CME 620 - Topics Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- EDH 609 - Leading Diverse Organizations
- EDH 714 - Understanding Minority Serving Institutions
- HIST 638A - American Indian History to 1851
- HIST 638B - Ethnohistory of Native Americans Since 1851
- HIST 638C - Topics in American Indian History
- HIST 695 - Special Topics in Gender and History
- HIST 754 - Topics in Public History
- SOC 774 - Seminar in Feminist Theories and Research
- SOC 779 - Seminar in Sociology of Aging
- SOC 780 - Aging and Social Policy
- SOC 768 - Environmental Sociology
- SOC 748 - Gender, Sex, Society
- SOC 750 - Seminar in the Sociology of Sex
- SOC 751 - International Issues: Gender, Sex, Globalization
- SOC 752 - Global Migrations
- SOC 753 - Racial Justice and Latina/os
- SOC 745 - The Family-Work Nexus
- SOC 714 - Seminar in Work and Occupations
- SOC 682 - Aging and Social Policy
- SOC 665 - Collective Behavior
- SOC 671 - Race and Ethnic Relations in America
- SOC 675 - Political Sociology
- SOC 678 - Women and Society
- SOC 649 - Sex and Social Arrangements
- SOC 653 - Gender and Society
- SOC 655 - Social Movements and Social Change
- SOC 660 - Critical Sociology
- SOC 641 - Social Inequality
- SOC 645 - Men in Society
- SOC 615 - World Population Problems
- SOC 616 - Sociology of Work and Occupations
- SOC 627 - Comparative Racial and Ethnic Relations
- SOC 629 - Globalization: Economic, Political, and Cultural Perspectives
- SOC 607 - Environment and Society
- SOC 610 - Sociology of Aging
- WMST 702 - Principles of Feminist Inquiry
- WMST 703 - Feminist Pedagogy
- WMST 799 - Independent Study
- WMST 690 - Special Topics
- WMST 700 - Introduction to Women’s Studies
- WMST 701 - Feminist Theory
- WMST 601 - Feminist Theories
- WMST 632A - History of American Women to 1870
- WMST 632B - History of American Women Since 1870
- WMST 672 - Controversies in Gender and Race
- WMST 674 - Gender, Sexuality, and Consumer Culture
  AAS 633 - Contemporary Issues in African American Studies
  AAS 634 - Constructions of Racial Ambiguity
  AAS 635 - Malcolm X
  ETS 603 - The Hispanic in the United States
  ETS 607 - Making Gender, Sexuality & Race

Certificate Requirements
Students must earn a B or better in all courses.

Plan Certificate Completion Requirements
1. Students must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. Certificates will be awarded upon the student’s successful completion of all certificate requirements and graduation application.
Graduate Certificate in Special Education

Plan Description

The Graduate Certificate in Special Education targets both part-time and full-time graduate students who wish to develop specialized knowledge in one of five special education strands: autism, learning disabilities, emotional behavioral disorders, gifted, intellectual disabilities. Each strand is relevant for those who work with individuals with disabilities or gifts and talents in a school setting, community setting, day care, or home-based setting. Each of the five strands is comprised of 15-credits that provide a strong knowledge base and pragmatic-practice base. Hours earned for each of the five strands may be applied to a degree program in special education at the master’s or doctoral degree levels. Hours earned in the master’s or doctorate programs in special education may not be used toward the certificate. Each certificate strand requires 15 credit hours.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

A bachelor’s degree from an accredited university. The student also must complete and submit the Graduate Certificate in Special Education (indicating the strand of study) application through the Graduate College. This should include a letter indicating the purpose of the study in the certificate strand selected. Accepted students can begin taking courses the term following acceptance.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Gifted
Subplan 2 Requirements: Intellectual Disabilities
Subplan 3 Requirements: Emotional Behavioral Disorders
Subplan 4 Requirements: Learning Disabilities
Subplan 5 Requirements: Autism

Subplan 1: Gifted
Total Credits Required: 15

Course Requirements

Required Courses – Credits: 15

- ESP 717G - Seminar in Advanced Curriculum Development
- ESP 730 - Parent Involvement in Special and General Education
- ESP 741 - Introduction to Gifted Education
- ESP 746 - Creativity in Gifted Education
- ESP 763 - Seminars in Selected Special Educational Topics

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 2: Intellectual Disabilities
Total Credits Required: 15

Course Requirements

Required Courses – Credits: 15

- ESP 702 - Psychological and Social Problems in Intellectual Disabilities
- ESP 704 - Adaptive Curricular Programming for Persons with Intellectual Disabilities
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 755 A - Medically Related Aspects of Disabilities
- ESP 763 - Seminars in Selected Special Educational Topics

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 3: Emotional Behavioral Disorders
Total Credits Required: 15

Course Requirements

Required Courses – Credits: 15

- ESP 705 - Psychological and Sociological Problems of Students with Emotional Disabilities
- ESP 706 - Advanced Educational Strategies for Students with Emotional Disabilities
- ESP 717B - Seminar in Advanced Curriculum Development
Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 4: Learning Disabilities
Total Credits Required: 15

Course Requirements
Required Courses – Credits: 15
- ESP 707 - Theories of Learning Disabilities
- ESP 708 - Advanced Education Strategies for Students with Disabilities
- ESP 714 - Advanced Seminar in Learning Disabilities
- ESP 717C - Seminar in Advanced Curriculum Development
- ESP 763 - Seminars in Selected Special Educational Topics

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
See Plan Certificate Completion Requirements below.

Subplan 5: Autism
Total Credits Required: 15

Course Requirements
Required Courses – Credits: 15
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 729 - Characteristics of Students with Autism Spectrum Disorders
- ESP 739 - Advanced Educational Strategies for Students with Autism Spectrum Disorders
- ESP 740 - Speech and Hearing Therapy for Classroom Teachers
- ESP 763 - Seminars in Selected Special Educational Topics

Certificate Requirements
See Plan Certificate Requirements below.

Certificate Completion Requirements
Completion of the 15 credits specified in the selected strand of study with B or better grade is required.

Certificate Completion Requirements
1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her certificate requirements.
2. Certificates will be awarded upon successful completion of the certificate requirements and filing of all required forms to the Graduate College.

Master of Education - Curriculum & Instruction

Plan Description
The Department holds as its central mission the preparation and development of educators at all levels. The department ensures that its professional education programs are based on essential knowledge, established and current research findings, and sound professional practice.

The program offers a wide variety of sub-plans to accommodate educators of all levels and content areas. The Graduate Licensure Program (GLP) subplans are designed to assist the student in earning a Master’s degree while also completing some of the requirements necessary to become licensed teacher. Subplans are also available for students who have been admitted into the Teach For America (TFA) program. Students can also earn a Master’s degree in some content areas through a partnership with the Regional Professional Development Program (RPDP).

Elementary
- Elementary Education
- Elementary Education Endorsement
- Elementary Education GLP
- Elementary Education TFA
- Elementary Mathematics Education (K-8)
- Elementary Science Education (K-8)
- Elementary Social Studies Education (K-8)

Secondary
- Middle School Mathematics Education RPDP (6-8)
- Middle School Science Education RPDP (6-8)
- Secondary Education
• Secondary Education GLP
• Secondary English Language Arts Education (7-12)
• Secondary English Language Arts Education TFA
• Secondary Mathematics Education (7-12)
• Secondary Mathematics Education RPDP (7-12)
• Secondary Mathematics Education TFA
• Secondary Science Education
• Secondary Science Education RPDP (7-12)
• Secondary Science Education TFA
• Secondary Social Studies Education (7-12)
• Secondary Social Studies Education TFA

Specialty
• Career & Technical and Postsecondary Education
• Children's and Young Adult Literature (K-12) **ON HOLD**
• Educational Technology
• Educational Technology RPDP
• Literacy Education (K-12)
• Multicultural Education (PK12, Higher Ed, or Community-Based Ed Focus)
• Reading Specialist (K-12) **ON HOLD**
• Leadership for Teachers and Professionals

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

• Master of Education - Curriculum & Instruction; Career & Technical
• Master of Education - Curriculum & Instruction; Children's and Young Adult Literature
• Master of Education - Curriculum & Instruction; Elementary Education
• Master of Education - Curriculum & Instruction; Elementary Mathematics
• Master of Education - Curriculum & Instruction; Elementary Science
• Master of Education - Curriculum & Instruction; Elementary Social Studies
• Master of Education - Curriculum & Instruction; English Education
• Master of Education - Curriculum & Instruction; Library Science
• Master of Education - Curriculum & Instruction; Literacy Education

• Master of Education - Curriculum & Instruction; Multicultural Education
• Master of Education - Curriculum & Instruction; Reading Specialist
• Master of Education - Curriculum & Instruction; Secondary Education
• Master of Education - Curriculum & Instruction; Secondary Mathematics
• Master of Education - Curriculum & Instruction; Secondary Science
• Master of Education - Curriculum & Instruction; Secondary Social Studies
• Master of Education - Curriculum & Instruction; Educational Technology
• Master of Education - Curriculum & Instruction; Leadership for Teachers and Professionals

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to meeting the admission requirements of the Graduate College, applicants must also meet the requirements established by the Department of Teaching and Learning. They are:

1. An overall undergraduate grade point average (GPA) of 3.00 is required for admission. Students with a GPA of less than 3.00 but greater or equal to 2.75 may be admitted to the graduate program upon review of the Admissions Committee.

2. A completed on-line application for admission submitted to the Graduate College.

3. The online application must include a one- to two-page statement of professional goals. The names with contact information of two professional references and intended emphasis area should be included in the statement.

4. Two sets of official transcripts from all previously attended colleges and universities. One set of transcripts must be sent directly to the Graduate College; the other set must be sent directly to the T&L main office.

5. For Graduate Licensure Program (GLP), must submit Praxis Core passing scores and the supplemental application directly to the T&L Department (see tl.unlv.edu/glp for details).

Applications are processed when all credentials required by both the Graduate College and T&L have been received. Once received, materials are forwarded to the Graduate Coordinator and the T&L Master's Admission Committee to evaluate the applicant's credentials and recommend acceptance or denial into the program. Those who wish to begin studies but who missed the application deadline may enroll as a non-degree seeking graduate student. However, since there is no guarantee that courses taken
as a non-degree student will count toward a degree, and since a maximum of 15 hours taken prior to admission to the program may be used to meet degree requirements, candidates are urged to seek advisement prior to registering for any course(s). Please see http://tl.unlv.edu/admissions for more information. Students may also email tlgrad@unlv.edu or call (702) 895-1986 for assistance.

The Graduate College will send official notification regarding the status of applications through the Grad Rebel Gateway. In addition, an email will be sent from the department of Teaching and Learning identifying an academic advisor. Students are responsible for contacting their advisors upon admission to the program. Students are required to complete their program of study using Advise, T&L's online system for submitting a program of study. Advise can be accessed at: http://advise.unlvcoe.net/.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.
Subplan 33: Leadership for Teachers and Professionals Track

Subplan 1 Requirements: Elementary Education Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
- CIE 685 - Elementary Education Curriculum

Pedagogy Course – Credits: 3
- CIE 683 - Elementary Classroom Management

Instruction Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIG 602 - Differentiated Curriculum and Instruction

Curricular Courses – Credits: 18
Complete 9 credits from each of two curricular areas below:

Mathematics Education
Complete one of the following courses (excluding the course taken above):
- CIE 623 - Instruction Primary Elementary Mathematics Education
- CIE 625 - Instruction Intermediate Elementary Mathematics Education
- CIS 622 - Instructional Middle School Mathematics Education

Complete two of the following courses (excluding the course taken above):
- CIE 620 - Topics Elementary School Mathematics
- CIE 623 - Instruction Primary Elementary Mathematics Education
- CIE 625 - Instruction Intermediate Elementary Mathematics Education
- CIE 627 - Technology Applications K-8 Mathematics Education
- CIE 629 - Curriculum Development in Elementary School Mathematics
- CIG 620 - Principles of Learning Mathematics
- CIS 622 - Instructional Middle School Mathematics Education

Science Education
Complete the following course:
- CIE 635 - Instruction Elementary Science Education

Complete two of the following courses:
- CIE 630 - Topics Elementary School Science
- CIE 637 - Technology Applications K-8 Science Education
- CIE 639 - Curriculum Development Elementary Science Education

Social Studies Education
- CIE 640 - Topics Elementary School Social Studies
- CIE 645 - Instruction Elementary Social Studies Education
- CIE 649 - Curriculum Development Elementary Social Studies Education
Literacy Education
Complete three of the following courses:
- CIL 601 - Foundations of Literacy Learning
- CIL 604 - Literacy Instruction for Young Children
- CIL 607 - Comprehensive Reading Instruction
- CIL 610 - Content Area Literacy
- CIL 616 - Teaching Writing
- CIL 621 - Assessment in Literacy
- CIL 680 - Contemporary Literature Children and Young Adults

Multicultural Education
Complete three of the following courses:
- CME 600 - Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- CME 620 - Topics Multicultural Education
- CIL 693 - Literacy for a Diverse Society
- CIL 684 - Multicultural Literature

Educational Technology
Complete three of the following courses:
- CIT 601 - Technology Applications Elementary Curriculum
- CIT 608 - Integrating Technology in Teaching and Learning
- CIT 609 - Internet for Learning
- CIT 611 - Digital Publishing for Educators
- CIT 649 - Instructional Methods Computer Applications

Teaching English as a Second Language
Complete three of the following courses:
- TESL 750 - TESL Linguistic Theory
- TESL 751 - Theory and Practice for Academic English Language Development
- TESL 752 - Methods and Curriculum for Teaching ELs
- TESL 753 - TESL Curriculum
- TESL 754 - Assessment and Evaluation of ELs

Elective Course – Credits: 3
Complete 3 credits advisor-approved elective courses.

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIE 685 must be completed within final 30-36 hours of study and required before enrollment in CIG 697.
2. CIG 660 cannot satisfy requirements in more than one category.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Elementary Education Endorsement Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education **
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development **
- EPY 712 - Foundations of Learning and Cognition **

Curriculum and Instruction Course – Credits: 3
Complete the following course within last 30-36 semester hours of coursework; preferably the semester before CIG 697.
- CIE 685 - Elementary Education Curriculum

Pedagogy Course – Credits: 3
- CIE 683 - Elementary Classroom Management **

Additional Pedagogy Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIG 602 - Differentiated Curriculum and Instruction
Literacy Courses – Credits: 6

- CIL 621 - Assessment in Literacy *
- CIL 680 - Contemporary Literature Children and Young Adults *

Additional Literacy Course – Credits: 3
Complete one of the following courses:
- CIL 604 - Literacy Instruction for Young Children *
- CIL 607 - Comprehensive Reading Instruction *

Methods Courses – Credits: 6

- CIE 635 - Instruction Elementary Science Education *
- CIE 645 - Instruction Elementary Social Studies Education *

Additional Methods Course – Credits: 3
Complete one of the following courses:
- CIE 623 - Instruction Primary Elementary Mathematics Education *
- CIE 625 - Instruction Intermediate Elementary Mathematics Education *

Professional Education Course – Credits: 3
Complete one of the following courses, or another advisor-approved course given the Professional Education licensure requirements are satisfied.

- CIT 601 - Technology Applications Elementary Curriculum **
- ESP 701 - Introduction to Special Education and Legal Issues **
- TESL 752 - Methods and Curriculum for Teaching ELs **

Culminating Experience – Credits: 1

- CIG 697 - Curriculum and Instruction Culminating Experience
  (Prerequisite: CIE 685 the semester prior to enrollment)

Methods courses given instructor, advisor and/or Graduate Coordinator approval.

3. **Meets the six semester hours of Professional Education coursework required for the regular Elementary Education license. Although selected courses are required for the master’s degree program, previous courses taken in two of the following areas are acceptable for the Nevada Department of Education regular Elementary Education license.

1. Classroom management;
2. English as a second language;
3. Technology;
4. Evaluation of pupils;
5. Child development;
6. Special education; or
7. Social and cultural issues.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Elementary Education Alternative Route to Licensure/Graduate Licensure Program Track
Total Credits Required: 37

Course Requirements

Research Course – Credits: 3

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3

- CME 600 - Multicultural Education

Curriculum & Instruction Course – Credits: 3

- CIE 685 - Elementary Education Curriculum

Pedagogy Courses – Credits: 15

- CIE 601 - Elementary Teacher Development Seminar
- CIT 601 - Technology Applications Elementary Curriculum
- ESP 701 - Introduction to Special Education and Legal Issues
- TESL 752 - Methods and Curriculum for Teaching ELs
- CIL 621 - Assessment in Literacy
Elementary Methods Courses – Credits: 12
Complete four of the following courses:

- CIE 533 - Teaching Elementary School Mathematics
- CIL 543 - Literacy Instruction II: Clinic-based
- CIE 553 - Teaching Elementary School Social Studies
- CIE 508 - Classroom Management Elementary Education
- CIL 501 - Children’s Literature Elementary School Curriculum
- CIL 542 - Literacy Instruction I
- CIE 543 - Teaching Elementary School Science
- ESP 730 - Parent Involvement in Special and General Education

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. These courses are only for the M.Ed portion of the Graduate Licensure program. Additional requirements exist that do not count towards the master's degree. Students should reference the Graduate Licensure page for complete details and information about the required sequence in which these courses must be taken.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Elementary Education TFA Track
Total Credits Required: 37

Course Requirements

Required Courses – Credits: 33
Complete these courses:

- CIE 533 - Teaching Elementary School Mathematics
- CIE 543 - Teaching Elementary School Science
- CIE 553 - Teaching Elementary School Social Studies
- CME 600 - Multicultural Education
- CIL 542 - Literacy Instruction I
- CIL 621 - Assessment in Literacy

- CIL 680 - Contemporary Literature Children and Young Adults
- CIE 685 - Elementary Education Curriculum
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 752 - Methods and Curriculum for Teaching ELs

Research Course – Credits: 3
Complete one of the following courses:

- EPY 702 - Research Methods
- CIG 690 - Teachers as Action Researchers

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Elementary Mathematics Education (K-8) Track
Total Credits Required: 37

Course Requirements

Research Course – Credits: 3
Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:

- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition
Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction

Methods Courses – Credits: 6
Complete two of the following courses:
- CIE 623 - Instruction Primary Elementary Mathematics Education
- CIE 625 - Instruction Intermediate Elementary Mathematics Education
- CIS 622 - Instructional Middle School Mathematics Education

Core Courses – Credits: 9
- CIE 620 - Topics Elementary School Mathematics
- CIE 627 - Technology Applications K-8 Mathematics Education
- CIG 620 - Principles of Learning Mathematics

Education Course – Credits: 3
Complete one of the following courses:
- CIE 629 - Curriculum Development in Elementary School Mathematics

Cognate Courses – Credits: 6
Complete 6 credits of advisor approved cognate coursework. Possible cognates include, but are not limited to, educational technology and teaching English as a second language.

Seminar Course – Credits: 3
- CIG 689 - Curriculum and Instruction Seminar

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Course Requirements

Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction

Core Courses – Credits: 12
- CIE 630 - Topics Elementary School Science
- CIE 635 - Instruction Elementary Science Education
- CIE 637 - Technology Applications K-8 Science Education
- CIE 639 - Curriculum Development Elementary Science Education

Elective Courses – Credits: 6
Complete 6 credits of 600 or 700-level advisor-approved Science courses from the College of Sciences or SCI 630 courses via RPDP.

Cognate Courses – Credits: 6
Complete 6 credits of cognate coursework. Possible cognates include, but are not limited to, educational technology and teaching English as a second language.

Seminar Course – Credits: 3
- CIG 639 - Science Education Seminar

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Elementary Science Education (K-8) Track

Total Credits Required: 37
**Subplan Notes**

CIG 639 must be completed prior to enrollment in CIG 697.

**Degree Requirements**

See Plan Degree Requirements below.

**Graduation Requirements**

See Plan Graduation Requirements below.

*Subplan 7 Requirements: Elementary Social Studies Education (K-8) Track*

Total Credits Required: 37

**Course Requirements**

**Research Course – Credits: 3**

Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

**Foundations Course – Credits: 3**

Complete one of the following courses:

- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

**Curriculum and Instruction Course – Credits: 3**

Complete one of the following courses:

- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction

**Core Courses – Credits: 9**

- CIE 640 - Topics Elementary School Social Studies
- CIE 645 - Instruction Elementary Social Studies Education
- CIE 649 - Curriculum Development Elementary Social Studies Education

**Integration Course – Credits: 3**

Complete one of the following courses:

- CIT 608 - Integrating Technology in Teaching and Learning
- CIT 609 - Internet for Learning

**Elective Courses – Credits: 12**

Complete three 600-level advisor-approved social science courses from Liberal Arts.

**Seminar Course – Credits: 3**

- CIG 689 - Curriculum and Instruction Seminar

**Culminating Experience – Credits: 1**

- CIG 697 - Curriculum and Instruction Culminating Experience

**Subplan Notes**

CIG 689 must be completed prior to enrollment in CIG 697.

**Degree Requirements**

See Plan Degree Requirements below.

**Graduation Requirements**

See Plan Graduation Requirements below.

*Subplan 8 Requirements: Middle School Mathematics Education RPDP Track*

Total Credits Required: 37

**Course Requirements**

**Research Course – Credits: 3**

Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

**Foundations Course – Credits: 3**

Complete one of the following courses:

- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

**Curriculum and Instruction Course – Credits: 3**

Complete one of the following courses:

- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum
Content Courses – Credits: 15
Complete 15 credits of SCI 620 courses via RPDP from UNLV’s College of Sciences.

Core Courses – Credits: 9
- CIE 627 - Technology Applications K-8 Mathematics Education
- CIG 620 - Principles of Learning Mathematics
- CIS 622 - Instructional Middle School Mathematics Education

Elective Course – Credits: 3
Complete one of the following courses:
- CIE 629 - Curriculum Development in Elementary School Mathematics
- CIG 629 - Mathematics Education Seminar
- CIS 620 - Topics Secondary School Mathematics Education
- CIS 629 - Curriculum Development Secondary Mathematics Education

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 620 is limited to 3 total credit hours.
2. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.
Graduation Requirements
See Plan Graduation Requirements below.

Subplan 9 Requirements: Middle School Science Education RPDP Track

Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Content Courses – Credits: 15
Complete 15 credits of SCI 630 courses via RPDP with credit through UNLV’s College of Sciences.

Core Courses – Credits: 6
- CIE 637 - Technology Applications K-8 Science Education
- CIS 632 - Instruction Middle School Science Education

Elective Courses – Credits: 6
Complete two of the following courses:
- CIG 639 - Science Education Seminar
- CIS 630 - Topics Secondary School Science
- CIS 639 - Curriculum Development Secondary Science Education

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. Admission to UNLV’s Graduate College is required PRIOR to the completion of 15 credit hours. Students who have already begun the RPDP Certificate Program are encouraged to apply to UNLV as soon as possible.
2. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.
Graduation Requirements
See Plan Graduation Requirements below.
Subplan 10 Requirements: Secondary Education Track

Total Credits Required: 37

Course Requirements

Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction

Pedagogy Courses – Credits: 6
- CIS 684 - Secondary Education Curriculum
- CIG 603 - Urban Education

Elective Courses – Credits: 9
Complete three courses from one of the subject areas below. One of the courses must be a methods** course.

English Education
Complete the following course:
- CIL 642 - Instruction English Education **
Complete two of the following courses, or any 600- or 700-level course(s) in English:
- CIL 643 - Curriculum Development English Education
- CIL 610 - Content Area Literacy
- CIL 616 - Teaching Writing

Mathematics Education
Complete one of the following courses:
- CIS 622 - Instructional Middle School Mathematics Education **
- CIS 624 - Instruction Secondary Mathematics Education **

Complete two of the following courses (excluding the course taken above), or any 600- or 700-level course(s) in Mathematics:
- CIG 621 - Diagnostic Assessment School Mathematics
- CIS 620 - Topics Secondary School Mathematics
- CIS 622 - Instructional Middle School Mathematics Education
- CIS 624 - Instruction Secondary Mathematics Education
- CIS 628 - Technology Application in Secondary Mathematics Education

Science Education
Complete one of the following courses:
- CIS 632 - Instruction Middle School Science Education **
- CIS 634 - Instruction Secondary Science Education **

Complete two of the following courses (excluding the course taken above), or any 600- or 700-level course(s) in Biology, Chemistry, Geosciences, and/or Physics:
- CIS 630 - Topics Secondary School Science
- CIS 632 - Instruction Middle School Science Education
- CIS 634 - Instruction Secondary Science Education
- CIS 638 - Technology Applications in Secondary Science Education
- CIS 639 - Curriculum Development Secondary Science Education

Social Studies
Complete the following course:
- CIS 644 - Instruction Secondary Social Studies Education **

Complete the following courses, or any 600- or 700-level course(s) in Anthropology, Economics, Geography, History, Political Science, Psychology and/or Sociology:
- CIS 640 - Topics Secondary Social Studies Education
- CIS 649 - Curriculum Development Secondary Social Studies Education

Cognate Courses – Credits: 9
Complete 3 advisor-approved courses from one of the cognate areas below. Other cognate areas may be selected with advisor approval.
Multicultural Education

- CME 600 - Multicultural Education
- CME 620 - Topics Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- CIL 684 - Multicultural Literature
- CIL 693 - Literacy for a Diverse Society
- Teaching English as a Second Language
- TESL 750 - TESL Linguistic Theory
- TESL 751 - Theory and Practice for Academic English Language Development
- TESL 752 - Methods and Curriculum for Teaching ELs
- TESL 753 - TESL Curriculum
- TESL 754 - Assessment and Evaluation of ELs
- Educational Technology
- CIT 602 - Technology Applications Secondary Curriculum
- CIT 608 - Integrating Technology in Teaching and Learning
- CIT 609 - Internet for Learning
- CIT 611 - Digital Publishing for Educators
- CIT 649 - Instructional Methods Computer Applications

Elective Course – Credits: 3

Complete 3 credits of an advisor-approved elective course.

Culminating Experience – Credits: 1

- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes

1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. CIG 660 cannot satisfy requirements in more than one category.
3. Each topic course (CIS 620, CIS 630, CIS 640, and CIG 661) is limited to 3 total credit hours.

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 11 Requirements: Secondary English Education ARL Program

Total Credits Required: 37

Course Requirements

Research Course – Credits: 3

Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods

Foundations Course – Credits: 3

- CME 600 - Multicultural Education

Curriculum & Instruction Course – Credits: 3

- CIS 684 - Secondary Education Curriculum

Pedagogy Courses – Credits: 18

- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 752 - Methods and Curriculum for Teaching ELs

Methods and Assessment – Credits: 6

- CIS 533 - Teaching Secondary English
- CIL 621 - Assessment in Literacy

Optional Course – Credits: 3

Complete one of the following courses:

- CIL 616 - Teaching Writing
- EPY 707 - Adolescent Development
- TESL 753 - TESL Curriculum

Culminating Experience – Credits: 1

- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes

1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. Note: These courses are only for the M.Ed portion of the Graduate Licensure program. Additional requirements exist that do not count towards the masters degree. Students should reference the Graduate Licensure page (tl.unlv.edu/gl) for complete details and information about the required sequence in which these courses must be taken.
Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 12 Requirements: Secondary Math Education ARL Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods

Foundations Course – Credits: 3
- CME 600 - Multicultural Education

Curriculum & Instruction Course – Credits: 3
- CIS 684 - Secondary Education Curriculum

Pedagogy Courses – Credits: 18
- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management
- ESP 730 - Parent Involvement in Special and General Education
- ESP 701 - Introduction to Special Education and Legal Issues
- TESL 752 - Methods and Curriculum for Teaching ELs

Methods and Assessment – Credits: 6
- CIS 553S - Teaching Secondary Mathematics
- CIG 621 - Diagnostic Assessment School Mathematics

Optional Course – Credits: 3
Complete one of the courses listed:
- CIG 620 - Principles of Learning Mathematics
- CIT 602 - Technology Applications Secondary Curriculum
- EPY 707 - Adolescent Development
- TESL 753 - TESL Curriculum

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. Note: These courses are only for the M.Ed portion of the Graduate Licensure program. Additional requirements exist that do not count towards the masters degree. Students should reference the Graduate Licensure page (tl.unlv.edu/glp) for complete details and information about the required sequence in which these courses must be taken.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 13 Requirements: Secondary Science Education ARL Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods

Foundations Course – Credits: 3
- CME 600 - Multicultural Education

Curriculum & Instruction Course – Credits: 3
- CIS 684 - Secondary Education Curriculum

Pedagogy Courses – Credits: 18
- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 752 - Methods and Curriculum for Teaching ELs

Methods and Assessment – Credits: 6
- CIS 563 - Teaching Secondary Science
- EPY 709 - Classroom Assessment

Optional Course – Credits: 3
Complete one of the courses listed:
- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management
- ESP 730 - Parent Involvement in Special and General Education
- TESL 752 - Methods and Curriculum for Teaching ELs

Methods and Assessment – Credits: 6
- CIS 563 - Teaching Secondary Science
- EPY 709 - Classroom Assessment

Optional Course – Credits: 3
Complete one of the following courses:
- CIS 638 - Technology Applications in Secondary Science Education
- CIT 602 - Technology Applications Secondary Curriculum
- EPY 707 - Adolescent Development
- TESL 753 - TESL Curriculum

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. Note: These courses are only for the M.Ed portion of the Graduate Licensure program. Additional requirements exist that do not count towards the masters degree. Students should reference the Graduate Licensure page (tl.unlv.edu/glp) for complete details and information about the required sequence in which these courses must be taken.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 14 Requirements: Secondary Social Studies Education ARL Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods

Foundations Course – Credits: 3
- CME 600 - Multicultural Education

Curriculum & Instruction Course – Credits: 3
- CIS 684 - Secondary Education Curriculum

Pedagogy Courses – Credits: 18
- CIS 602 - Secondary School Practicum
- CIS 603 - Secondary Process and Instruction
- CIS 604 - Secondary Classroom Management
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 752 - Methods and Curriculum for Teaching ELs

Methods and Assessment – Credits: 6
- CIS 573 - Teaching Secondary Social Studies
- EPY 709 - Classroom Assessment

Optional Course – Credits: 3
Complete one of the following courses:
- CIS 649 - Curriculum Development Secondary Social Studies Education
- CIT 602 - Technology Applications Secondary Curriculum
- EPY 707 - Adolescent Development
- TESL 753 - TESL Curriculum

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
2. Note: These courses are only for the M.Ed portion of the Graduate Licensure program. Additional requirements exist that do not count towards the masters degree. Students should reference the Graduate Licensure page (tl.unlv.edu/glp) for complete details and information about the required sequence in which these courses must be taken.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 15 Requirements: Secondary English Language Arts Education (7-12) Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research
Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Core Courses – Credits: 12
- CIL 610 - Content Area Literacy
- CIL 642 - Instruction English Education
- CIL 643 - Curriculum Development English Education
- CIL 616 - Teaching Writing

Literacy Topics Course – Credits: 3
Complete one of the following courses:
- CIL 600 - Topics Literacy Education
- CIL 680 - Contemporary Literature Children and Young Adults

Cognate Courses – Credits: 6
Complete two courses from one of the following areas of emphasis:
- English
  - Advisor-approved 600-level courses in the Department of English.
- Literacy
  - CIL 601 - Foundations of Literacy Learning
  - CIL 621 - Assessment in Literacy
  - CIL 693 - Literacy for a Diverse Society
- Other CIL literacy courses selected with advisor approval

TESL
- TESL 750 - TESL Linguistic Theory
- TESL 751 - Theory and Practice for Academic English Language Development
- TESL 752 - Methods and Curriculum for Teaching ELs
- TESL 753 - TESL Curriculum

Elective Course – Credits: 3
Complete 3 credits of an advisor-approved elective course.

Seminar Course – Credits: 3
- CIL 699 - Literacy Research Seminar

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 16 Requirements: Secondary English Language Arts Education TFA Track
Total Credits Required: 37

Course Requirements
Required Courses – Credits: 33
Complete these courses:
- CME 600 - Multicultural Education
- CIL 616 - Teaching Writing
- CIL 621 - Assessment in Literacy
- CIL 642 - Instruction English Education
- CIS 604 - Secondary Classroom Management
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 751 - Theory and Practice for Academic English Language Development
- TESL 752 - Methods and Curriculum for Teaching ELs

Research Course – Credits: 3
Complete one of the following courses:
- EPY 702 - Research Methods
- CIG 690 - Teachers as Action Researchers

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience
Subplan Notes
CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 17 Requirements: Secondary Mathematics Education (7-12) Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Methods Course – Credits: 3
Complete one of the following courses:
• CIS 622 - Instructional Middle School Mathematics Education
• CIS 624 - Instructional Secondary Mathematics Education

Mathematics Education Courses – Credits: 6
• CIG 620 - Principles of Learning Mathematics
• CIS 628 - Technology Application in Secondary Mathematics Education

Mathematics Elective Course – Credits: 3
Complete one of the following courses:
• CIG 621 - Diagnostic Assessment School Mathematics
• CIS 686 - Curriculum Development Secondary Education

Mathematics Content Courses – Credits: 9
Complete three of the following courses, or other 600-700 level MAT courses:
• CIS 620 - Topics Secondary School Mathematics
• MAT 711 - Survey of Mathematical Problems I
• MAT 712 - Survey of Mathematical Problems II
• MAT 714 - History of Mathematics
• SCI 620 - Middle School Mathematics Content:
• SCI 640 - High School Mathematics Content:

Elective Course – Credits: 3
Complete 3 credits of an advisor-approved elective course.

Seminar Course – Credits: 3
• CIG 689 - Curriculum and Instruction Seminar

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIG 689 must be completed before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 18 Requirements: Secondary Mathematics Education RPDP (7-12) Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Mathematics Elective Course – Credits: 3
Complete one of the following courses:
• CIG 621 - Diagnostic Assessment School Mathematics
• CIS 686 - Curriculum Development Secondary Education

Mathematics Content Courses – Credits: 9
Complete three of the following courses, or other 600-700 level MAT courses:
• CIS 620 - Topics Secondary School Mathematics
• MAT 711 - Survey of Mathematical Problems I
• MAT 712 - Survey of Mathematical Problems II
• MAT 714 - History of Mathematics
• SCI 620 - Middle School Mathematics Content:
• SCI 640 - High School Mathematics Content:

Elective Course – Credits: 3
Complete 3 credits of an advisor-approved elective course.

Seminar Course – Credits: 3
• CIG 689 - Curriculum and Instruction Seminar

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIG 689 must be completed before enrollment in CIG 697.
Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Content Courses – Credits: 15
Complete 15 credits of SCI 640 courses via RPDP from UNLV's College of Sciences.

Instruction Course – Credits: 3
Complete one of the following courses:
- CIS 622 - Instructional Middle School Mathematics Education
- CIS 624 - Instruction Secondary Mathematics Education

Education Courses – Credits: 6
- CIG 620 - Principles of Learning Mathematics
- CIS 628 - Technology Application in Secondary Mathematics Education

Elective Course – Credits: 3
Complete one of the following courses:
- CIG 629 - Mathematics Education Seminar
- CIG 621 - Diagnostic Assessment School Mathematics
- CIS 620 - Topics Secondary School Mathematics
- CIS 629 - Curriculum Development Secondary Mathematics Education

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 620 is limited to 3 total credit hours.
2. CIS 624 and CIS 628 require secondary mathematics content background.
3. Students must successfully complete a culminating experience. CIG 697 involves the development of an e-portfoli. It is recommended that you keep copies of your work from all classes in your program in preparation for this course.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 19 Requirements: Secondary Mathematics Education TFA Track
Total Credits Required: 37

Course Requirements
Required Courses – Credits: 33
Complete these courses:
- CIG 620 - Principles of Learning Mathematics
- CIG 621 - Diagnostic Assessment School Mathematics
- CME 600 - Multicultural Education
- CIS 604 - Secondary Classroom Management
- CIS 624 - Instruction Secondary Mathematics Education
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 730 - Parent Involvement in Special and General Education
- TESL 751 - Theory and Practice for Academic English Language Development
- TESL 752 - Methods and Curriculum for Teaching ELs

Research Course – Credits: 3
Complete one of the following courses:
- EPY 702 - Research Methods
- CIG 690 - Teachers as Action Researchers

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.
Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 20 Requirements: Secondary Science Education Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Core Courses – Credits: 12
• CIS 630 - Topics Secondary School Science
• CIS 634 - Instruction Secondary Science Education
• CIS 638 - Technology Applications in Secondary Science Education
• CIS 639 - Curriculum Development Secondary Science Education

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level advisor-approved courses from the College of Sciences or SCI 650 courses via RPDP.

Cognate Courses – Credits: 6
Complete 6 credits of advisor-approved cognate coursework.

Seminar Course – Credits: 3
• CIG 639 - Science Education Seminar

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIG 639 must be completed prior to enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 21 Requirements: Secondary Science Education RPDP Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Core Courses – Credits: 15
Complete 15 credits of SCI 650 courses via RPDP through UNLV's College of Sciences.

Content Courses – Credits: 6
Complete 6 credits of 600- or 700-level advisor-approved courses from the College of Sciences or SCI 650 courses via RPDP.

Cognate Courses – Credits: 6
Complete 6 credits of advisor-approved cognate coursework.

Seminar Course – Credits: 3
• CIG 639 - Science Education Seminar

Elective Courses – Credits: 6
Complete two of the following courses:

- CIG 639 - Science Education Seminar
- CIS 630 - Topics Secondary School Science
- CIS 639 - Curriculum Development Secondary Science Education

Culminating Experience – Credits: 1

- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
Admission to UNLV’s Graduate College is required PRIOR to the completion of 15 credit hours. Students who have already begun the RPDP Certificate Program are encouraged to apply to UNLV as soon as possible.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 22 Requirements: Secondary Science Education TFA Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:

- EPY 702 - Research Methods
- CIG 690 - Teachers as Action Researchers

Culminating Experience – Credits: 1

- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 23 Requirements: Secondary Social Studies Education (7-12) Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:

- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:

- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Core Courses – Credits: 12

- CIS 640 - Topics Secondary Social Studies Education
- CIS 644 - Instruction Secondary Social Studies Education
• CIS 649 - Curriculum Development Secondary Social Studies Education

Content Course – Credits: 3
Complete one of the following courses:
• CIT 609 - Internet for Learning
• CIT 608 - Integrating Technology in Teaching and Learning

Elective Courses – Credits: 9
Complete 9 credits of 600-level social science courses from Liberal Arts.

Seminar Course – Credits: 3
• CIG 649 - Social Studies Education Seminar

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. CIS 640 is limited to 3 total credit hours.
2. CIS 649 must be completed prior to CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 24 Requirements: Secondary Social Studies Education TFA Track
Total Credits Required: 37

Course Requirements
Required Courses – Credits: 33
Complete these courses:
• CME 600 - Multicultural Education
• CIS 640 - Topics Secondary Social Studies Education
• CIS 644 - Instruction Secondary Social Studies Education
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum
• ESP 701 - Introduction to Special Education and Legal Issues
• ESP 730 - Parent Involvement in Special and General Education
• EPY 709 - Classroom Assessment
• TESL 751 - Theory and Practice for Academic English Language Development

• TESL 752 - Methods and Curriculum for Teaching ELs
• CIS 604 - Secondary Classroom Management

Research Course – Credits: 3
Complete one of the following courses:
• EPY 702 - Research Methods
• CIG 690 - Teachers as Action Researchers

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIS 684 must be completed within final 30-36 hours of study and before enrollment in CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 25 Requirements: Career & Technical and Postsecondary Education Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum & Instruction Course – Credits: 3
Complete one of the following courses:
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum
Concentration Courses – Credits: 15
- EDW 755 - Professional Seminar in Workforce Education
- EDW 539 - Methods of Teaching in Workforce Education
- EDW 575 - Performance-Based Education
- EDW 733 - Workforce Education Curriculum and Program Development
- EDW 768 - Grantsmanship in Education

Core Course – Credits: 3
Complete one of the following courses:
- EDW 571 - Advising Career and Technical Student Organizations (CTSO)
- EDW 745 - Theories of Adult Learning

Cognate Courses – Credits: 6
Complete 6 credits of advisor-approval cognate coursework within a particular area of study.

Applied Concepts Course – Credits: 3
Complete one of the following courses:
- EDW 530 - Tools for Success in Secondary Workforce Education
- EDW 748 - Internship in Workforce Education

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 26 Requirements: Children’s and Young Adult Literature (K-12) Track **ON HOLD**
Total Credits Required: 37
This subplan is currently on hold and unavailable to new students.

Course Requirements
Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction

- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Research Course – Credits: 3
Complete one of the following courses:
- CIG 690 - Teachers as Action Researchers
- EPY 702 - Research Methods
- EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Literacy Learning Course – Credits: 3
- CIL 601 - Foundations of Literacy Learning

Literacy Topics Course – Credits: 3
Complete one of the following courses:
- CIL 600 - Topics Literacy Education
- CIL 680 - Contemporary Literature Children and Young Adults

Elective Courses – Credits: 12
Complete four of the following courses, or other advisor-approved CIL 600-level courses:
- CIL 600 - Topics Literacy Education
- CIL 604 - Literacy Instruction for Young Children
- CIL 607 - Comprehensive Reading Instruction
- CIL 680 - Contemporary Literature Children and Young Adults
- CIL 684 - Multicultural Literature
- CIL 687 - Literature-Based Instruction
- CIL 688 - Historical Development of Literature
- CIL 747 - Literary Theories and Children’s Literature

Cognate Course – Credits: 6
Complete 6 credits of advisor-approval cognate coursework within a particular area of study.

Seminar Course – Credits: 3
- CIL 699 - Literacy Research Seminar
Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. A maximum of 6 semester hours of CIL 602 topics classes accepted toward a degree.
2. CIL 699 must be taken the semester prior to CIG 697.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 27 Requirements: Education Technology Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Core Courses – Credits: 18
• CIT 608 - Integrating Technology in Teaching and Learning
• CIT 609 - Internet for Learning
• CIT 643 - Designing Digital Materials for Education
• CIT 648 - Issues and Methods in Online Learning
• CIT 667 - Technology and Educational Change
• CIT 673 - Digital Materials Studio

Elective Courses – Credits: 9
Complete 9 credits of electives from the following list, or other advisor-approved content area methods courses:
• CIT 600 - Topics in Educational Technology:
• CIT 611 - Digital Publishing for Educators
• CIT 647 - Creating Online Learning Environments
• CIT 649 - Instructional Methods Computer Applications
• CIT 651 - Instructional Methods Computer Science
• CIT 653 - Creating Digital Materials for Education
• CIT 676 - Management of Educational Technology Facilities and Resources

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 28 Requirements: Educational Technology RPDP Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition
Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Technology Integration Courses – Credits: 24
• CIT 643 - Designing Digital Materials for Education
• CIT 667 - Technology and Educational Change
• CIT 673 - Digital Materials Studio
• CIT 608 - Integrating Technology in Teaching and Learning
• CIT 609 - Internet for Learning
• CIT 611 - Digital Publishing for Educators
• CIT 622 - Microcomputer Technology for Educators
• CIT 647 - Creating Online Learning Environments

Electives Course – Credits: 3
Complete one of the following courses:
• CIE 637 - Technology Applications K-8 Science Education
• CIE 627 - Technology Applications K-8 Mathematics Education
• TESL 756 - Technology Assisted English Language Learning
• CIS 628 - Technology Application in Secondary Mathematics Education
• CIS 638 - Technology Applications in Secondary Science Education
• CIT 600 - Topics in Educational Technology:
• CIT 648 - Issues and Methods in Online Learning
• CIT 649 - Instructional Methods Computer Applications
• CIT 651 - Instructional Methods Computer Science
• CIT 653 - Creating Digital Materials for Education

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 29 Requirements: Literacy Education (K-12) Track
Total Credits Required: 37

Course Requirements

Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Required Literacy Courses – Credits: 6
Complete CIL 601 before taking CIL 699.
• CIL 601 - Foundations of Literacy Learning
• CIL 699 - Literacy Research Seminar

Elective Courses – Credits: 21
Complete 21 credits from the following list of courses, or other advisor-approved CIL 600-level courses:
• CIL 600 - Topics Literacy Education
• CIL 604 - Literacy Instruction for Young Children
• CIL 607 - Comprehensive Reading Instruction
• CIL 610 - Content Area Literacy
• CIL 616 - Teaching Writing
• CIL 617 - Southern Nevada Writing Project: Invitational Institute

Degree Requirements
See Plan Degree Requirements below.
• CIL 621 - Assessment in Literacy
• CIL 622 - Practicum Literacy Diagnosis and Instruction
• CIL 691 - Organization and Supervision Literacy Programs
• CIL 693 - Literacy for a Diverse Society
• CIL 680 - Contemporary Literature Children and Young Adults
• CIL 684 - Multicultural Literature
• CIL 687 - Literature-Based Instruction
• CIL 688 - Historical Development of Literature
• CIL 747 - Literary Theories and Children’s Literature

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
1. A maximum of 6 semester hours of CIL 600 topics classes accepted toward a degree.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 30 Requirements: Literacy Education (K-12) Track - Regional Professional Development Program
Total Credits Required: 37

Course Requirements

Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Literacy Courses – Credits: 15
Complete each of the following courses:
• CILR 601 - Foundations Literacy Learning
• CILR 607 - Comprehensive Reading Instruction
• CILR 610 - Content Area Literacy
• CILR 621 - Assessment in Literacy
• CILR 622 - Practicum Literacy Diagnosis and Instruction

Content Course – Credits: 3
Complete one of the following courses:
• CIL 604 - Literacy Instruction for Young Children
• CIL 680 - Contemporary Literature Children and Young Adults

Electives – Credits: 6
Complete 6 credits from the following list of courses, or other advisor-approved CIL 600-level courses:
• CIL 600 - Topics Literacy Education
• CIL 604 - Literacy Instruction for Young Children
• CIL 616 - Teaching Writing
• CIL 617 - Southern Nevada Writing Project: Invitational Institute
• CIL 680 - Contemporary Literature Children and Young Adults
• CIL 684 - Multicultural Literature
• CIL 687 - Literature-Based Instruction
• CIL 688 - Historical Development of Literature
• CIL 691 - Organization and Supervision Literacy Programs
• CIL 693 - Literacy for a Diverse Society
• CIL 747 - Literary Theories and Children’s Literature

Culminating Courses – Credits: 4
• CIL 699 - Literacy Research Seminar
• CIG 697 - Curriculum and Instruction Culminating Experience
Subplan Notes
1. 15 credits of CILR coursework may be brought into this subplan only.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 31 Requirements: Multicultural Education (PK12, Higher Ed, or Community-Based Ed Focus) Track
Total Credits Required: 37

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Multicultural Core Course – Credits: 3
• CME 600 - Multicultural Education

Multicultural Education Courses – Credits: 9
Complete three of the following courses:
• CME 620 - Topics Multicultural Education
• CME 640 - Theory and Research Multicultural Education
• CIL 693 - Literacy for a Diverse Society
• CIL 684 - Multicultural Literature

TESL Core Course – Credits: 3
• TESL 751 - Theory and Practice for Academic English Language Development

TESL Elective Courses – Credits: 6
Complete two of the following courses:
• TESL 750 - TESL Linguistic Theory
• TESL 752 - Methods and Curriculum for Teaching ELs
• TESL 753 - TESL Curriculum
• TESL 754 - Assessment and Evaluation of ELs

Cognate Courses – Credits: 6
Complete 6 credits of advisor-approved cognate coursework.

Culminating Experience – Credits: 1
• CIG 697 - Curriculum and Instruction Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 32 Requirements: Reading Specialist Track **ON HOLD**
Total Credits Required: 37
This subplan is currently on hold and unavailable to new students.

Course Requirements
Research Course – Credits: 3
Complete one of the following courses:
• CIG 690 - Teachers as Action Researchers
• EPY 702 - Research Methods
• EPY 703 - Teachers as Producers and Consumers of Educational Research

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
• CIE 681 - Elementary School Instruction
• CIE 683 - Elementary Classroom Management
• CIE 685 - Elementary Education Curriculum
• CIG 602 - Differentiated Curriculum and Instruction
• CIS 682 - Secondary School Instruction
• CIS 684 - Secondary Education Curriculum

Multicultural Core Course – Credits: 3
• CME 600 - Multicultural Education

Multicultural Education Courses – Credits: 9
Complete three of the following courses:
• CME 620 - Topics Multicultural Education
• CME 640 - Theory and Research Multicultural Education
• CIL 693 - Literacy for a Diverse Society
• CIL 684 - Multicultural Literature
Curriculum and Instruction Course – Credits: 3
Complete one of the following courses:
- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Learning Course – Credits: 3
- CIL 601 - Foundations of Literacy Learning

Additional Foundations Course – Credits: 3
Complete one of the following courses:
- CIL 600 - Topics Literacy Education
- CIL 680 - Contemporary Literature Children and Young Adults

Reading Specialist Courses – Credits: 12
- CIL 610 - Content Area Literacy
- CIL 621 - Assessment in Literacy
- CIL 622 - Practicum Literacy Diagnosis and Instruction
- CIL 691 - Organization and Supervision Literacy Programs

Literacy Programs Course – Credits: 3
Complete one of the following courses:
- CIL 604 - Literacy Instruction for Young Children
- CIL 607 - Comprehensive Reading Instruction

Reading Specialist Elective Course – Credits: 3
Complete one of the following courses, or other advisor-approved CIL 600-level courses:
- CIL 616 - Teaching Writing
- CIL 617 - Southern Nevada Writing Project: Invitational Institute
- TESL 750 - TESL Linguistic Theory
- CIL 684 - Multicultural Literature
- CIL 687 - Literature-Based Instruction
- CIL 688 - Historical Development of Literature
- CIL 693 - Literacy for a Diverse Society
- CIL 747 - Literary Theories and Children’s Literature
- TESL 751 - Theory and Practice for Academic English Language Development

Seminar Course – Credits: 3
- CIL 699 - Literacy Research Seminar

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience

Subplan Notes
CIL 699 must be taken the semester prior to Culminating Experience.

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 33 Requirements: Leadership for Teachers and Professionals Track
Total Credits Required: 37

Course Requirements

Research Course – Credits: 3
- CIG 690 - Teachers as Action Researchers

Foundations Course – Credits: 3
- CIG 686 - Teachers and Professionals as Change Agents

Curriculum and Instruction Course – Credits: 3
- CIG 681 - Curriculum Implementation and Innovation

Concentration: Teacher Leadership – Credits: 27
- CIG 603 - Urban Education
- CIG 680 - Developing Social Emotional Competence in Teachers and Professional Leaders
- CIG 682 - Reflective Practice in Teaching
- CIG 683 - Dynamic Teaching Practices
- CIG 684 - Data Literacy for Teacher and Professional Leaders
- CIG 685 - Peer Assistance and Review
- CIG 687 - Coaching High-Leverage Field Practices
- CIG 688 - Teaching and Learning Seminar
- CIT 667 - Technology and Educational Change

Culminating Experience – Credits: 1
- CIG 697 - Curriculum and Instruction Culminating Experience
Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements
1. Students must complete a minimum of 37 credit hours with a minimum GPA of 3.00.
2. All graduate students are held responsible for the requirements and academic policies established by the Graduate College and outlined in the front of this catalog.
3. Students must successfully complete a culminating experience, CIG 697 under the direction of an advisor.
   a. Registration for the culminating experience, CIG 697, is restricted to students who have 6 credits or less remaining in their program of study.
   b. CIG 697 involves the development of an e-portfolio. It is recommended that you keep copies of your work from all classes in your program in preparation for this course.
4. Per graduate college requirements, students must be enrolled in at least 3 credits in the term they will graduate.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete the culminating experience.

Master of Science - Curriculum & Instruction

Plan Description
The Department holds as its central mission the preparation and development of educators at all levels. The department ensures that its professional education programs are based on essential knowledge, established and current research findings, and sound professional practice.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Master of Science - Curriculum & Instruction; Career & Technical
- Master of Science - Curriculum & Instruction; Elementary Education
- Master of Science - Curriculum & Instruction; Elementary Mathematics
- Master of Science - Curriculum & Instruction; Elementary Science
- Master of Science - Curriculum & Instruction; Elementary Social Studies
- Master of Science - Curriculum & Instruction; English Education
- Master of Science - Curriculum & Instruction; Library Science
- Master of Science - Curriculum & Instruction; Reading Specialist
- Master of Science - Curriculum & Instruction; Secondary Education
- Master of Science - Curriculum & Instruction; Secondary Mathematics
- Master of Science - Curriculum & Instruction; Secondary Science
- Master of Science - Curriculum & Instruction; Secondary Social Studies
- Master of Science - Curriculum & Instruction; Educational Technology
- Master of Science - Curriculum & Instruction; Multicultural Education

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
In addition to meeting the admission requirements of the Graduate College, applicants must also meet the requirements established by the Department of Teaching and Learning. They are:
1. An overall undergraduate grade point average (GPA) of 3.00 is required for admission. Students with a GPA of less than 3.00 but greater or equal to 2.75 may be admitted to the graduate program upon review of the Admissions Committee.

2. A completed on-line application for admission submitted to the Graduate College.

3. The online application must include a one- to two-page statement of professional goals. The names with contact information of two professional references and intended emphasis area should be included in the statement.

4. Two sets of official transcripts from all previously attended colleges and universities. One set of transcripts must be sent directly to the Graduate College; the other set must be sent directly to the T&L main office.

Applications are processed when all credentials required by both the Graduate College and T&L have been received. Once received, materials are forwarded to the Graduate Coordinator and the T&L Master’s Admission Committee to evaluate the applicant's credentials and recommend acceptance or denial into the program. Those who wish to begin studies but who missed the application deadline may enroll as a non-degree seeking graduate student. However, since there is no guarantee that courses taken as a non-degree student will count toward a degree, and since a maximum of 15 hours taken prior to admission to the program may be used to meet degree requirements, candidates are urged to seek advisement prior to registering for any course(s). Please see http://tl.unlv.edu/admissions for more information. Students may also email tlgrad@unlv.edu or call (702) 895-1540 for assistance.

The Graduate College will send official notification regarding the status of applications through the Grad Rebel Gateway. In addition, an email will be sent from the department of Teaching and Learning identifying an academic advisor. Students are responsible for contacting their advisors upon admission to the program. Students are required to complete their program of study using Advise, T&L's online system for submitting a program of study. Advise can be accessed at: http://advise.unlvcoe.net/.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

---

**Plan Requirements**

See Subplan Requirements below.

**Subplan 1 Requirements: Career & Technical and Postsecondary Education Track**

Total Credits Required: 39

**Course Requirements**

**Required Course – Credits: 3**

- EPY 702 - Research Methods

**Methods Course – Credits: 3**

Complete one of the following courses:

- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

**Foundations Course – Credits: 3**

Complete one of the following courses:

- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

**Instruction Course – Credits: 3**

Complete one of the following courses:

- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum
- EDW 745 - Theories of Adult Learning

**Core Courses – Credits: 15**

- EDW 775 - Thesis
- EDW 539 - Methods of Teaching in Workforce Education
- EDW 575 - Performance-Based Education
- EDW 733 - Workforce Education Curriculum and Program Development
- EDW 768 - Grantsmanship in Education

**Additional Core Course – Credits: 3**

Complete one of the following courses:

- EDW 571 - Advising Career and Technical Student Organizations (CTSO)
- EDW 745 - Theories of Adult Learning
Seminar Course – Credits: 3
- EDW 772 - Seminar in Workforce Education

Thesis – Credits: 6
- CIG 699 - Curriculum and Instruction Thesis

Degree Requirements
1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, "Prospectus Approval Form", must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

Subplan 2 Requirements: English Language Arts Education Track
Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
- EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Core Courses – Credits: 12
- CIL 610 - Content Area Literacy
- CIL 642 - Instruction English Education
- CIL 643 - Curriculum Development English Education
- CIL 616 - Teaching Writing

Literacy Topics Course – Credits: 3
Complete one of the following courses:
- CIL 600 - Topics Literacy Education
- CIL 680 - Contemporary Literature Children and Young Adults

Cognate Courses – Credits: 6
Complete two courses from one of the following areas of emphasis:

English
Classes must be 600-level, advisor approved courses in the Department of English.

Literacy
- CIL 601 - Foundations of Literacy Learning
- CIL 621 - Assessment in Literacy
- CIL 693 - Literacy for a Diverse Society
Other CIL literacy courses selected with advisor approval.

TESL
- TESL 750 - TESL Linguistic Theory
• TESL 751 - Theory and Practice for Academic English Language Development
• TESL 752 - Methods and Curriculum for Teaching ELs
• TESL 753 - TESL Curriculum
• TESL 754 - Assessment and Evaluation of ELs

Seminar Course – Credits: 3
• CIL 699 - Literacy Research Seminar

Thesis – Credits: 6
• CIG 699 - Curriculum and Instruction Thesis

Degree Requirements

1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, “Prospectus Approval Form”, must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Elementary Mathematics Education Track

Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
• EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
• EPY 718 - Qualitative Research Methodologies
• EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Methods Courses – Credits: 6
Complete two of the following courses:
• CIE 623 - Instruction Primary Elementary Mathematics Education
• CIE 625 - Instruction Intermediate Elementary Mathematics Education
• CIS 622 - Instructional Middle School Mathematics Education

Core Courses – Credits: 9
• CIE 620 - Topics Elementary School Mathematics
• CIE 627 - Technology Applications K-8 Mathematics Education
• CIG 620 - Principles of Learning Mathematics

Education Course – Credits: 3
Complete one of the following courses:

- CIE 629 - Curriculum Development in Elementary School Mathematics
- CIG 621 - Diagnostic Assessment School Mathematics

Elective Course – Credits: 6
Complete 6 credits of advisor-approved elective courses.

Culminating Experience – Credits: 6
- CIG 689 - Curriculum and Instruction Seminar
- CIG 697 - Curriculum and Instruction Culminating Experience

Degree Requirements
1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. Complete the culminating experience.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must complete the culminating experience.

Subplan 4 Requirements: Secondary Mathematics Education Track
Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
- EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Mathematics Education Courses – Credits: 12
- CIS 622 - Instructional Middle School Mathematics Education
- CIS 624 - Instruction Secondary Mathematics Education
- CIS 628 - Technology Application in Secondary Mathematics Education
- CIG 620 - Principles of Learning Mathematics

Mathematics Elective Course – Credits: 3
Complete one of the following courses:
- CIG 621 - Diagnostic Assessment School Mathematics
- CIS 686 - Curriculum Development Secondary Education

Mathematics Content Courses – Credits: 6
Complete two of the following courses:
- CIS 620 - Topics Secondary School Mathematics
- MAT 711 - Survey of Mathematical Problems I
- MAT 712 - Survey of Mathematical Problems II
- MAT 714 - History of Mathematics
- SCI 620 - Middle School Mathematics Content:
- SCI 640 - High School Mathematics Content:

Seminar Course – Credits: 3
- CIG 689 - Curriculum and Instruction Seminar

Thesis – Credits: 6
- CIG 699 - Curriculum and Instruction Thesis

Degree Requirements
1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, "Prospectus Approval Form", must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 5 Requirements: Elementary Science Education Track

Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
• EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
• EPY 718 - Qualitative Research Methodologies
• EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Core Courses – Credits: 12
• CIE 630 - Topics Elementary School Science
• CIE 635 - Instruction Elementary Science Education
• CIE 637 - Technology Applications K-8 Science Education
• CIE 639 - Curriculum Development Elementary Science Education

Science Courses – Credits: 6
Complete 6 credits of 600 or 700-level Science courses from the College of Sciences of SCI 630 courses via RPDP.

Elective Course – Credits: 3
Complete 3 credits of electives.

Seminar Course – Credits: 3
• CIG 639 - Science Education Seminar

Thesis – Credits: 6
• CIG 699 - Curriculum and Instruction Thesis

Degree Requirements

1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.

2. EPY 702 must be taken prior to EPY 718 or EPY 721.

3. CIG 649 must be taken prior to CIG 699.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

5. Complete and defend a thesis.

1. Students must be enrolled in thesis credits the semester of graduation.

2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, "Prospectus Approval Form", must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.
Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 6 Requirements: Secondary Science Education Track
Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
• EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
• EPY 718 - Qualitative Research Methodologies
• EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Core Courses – Credits: 12
• CIS 630 - Topics Secondary School Science
• CIS 634 - Instruction Secondary Science Education
• CIS 638 - Technology Applications in Secondary Science Education
• CIS 639 - Curriculum Development Secondary Science Education

Science Courses – Credits: 6
Complete 6 credits of 600 or 700-level courses from the College of Sciences or SCI 650 courses via RPDP.

Elective Course – Credits: 3
Complete 3 credits of an advisor approved elective.

Seminar Course – Credits: 3
• CIG 639 - Science Education Seminar

Thesis – Credits: 6
• CIG 699 - Curriculum and Instruction Thesis

Degree Requirements

1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, "Prospectus Approval Form", must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

**Subplan 7 Requirements: Elementary Social Science Education Track**

Total Credits Required: 39

**Course Requirements**

Required Course – Credits: 3
- EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
- EPY 718 - Qualitative Research Methodologies
- EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
- CIG 603 - Urban Education
- CME 600 - Multicultural Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Core Courses – Credits: 9
- CIE 640 - Topics Elementary School Social Studies
- CIE 645 - Instruction Elementary Social Studies Education
- CIE 649 - Curriculum Development Elementary Social Studies Education

Integration Course – Credits: 3
Complete one of the following courses:
- CIT 608 - Integrating Technology in Teaching and Learning
- CIT 609 - Internet for Learning

Elective Courses – Credits: 9
Complete four 600-level social science courses from History, Sociology or Political Science.

Seminar Course – Credits: 3
- CIG 649 - Social Studies Education Seminar

**Thesis – Credits: 6**
- CIG 699 - Curriculum and Instruction Thesis

**Degree Requirements**

1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, "Prospectus Approval Form", must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

**Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 8 Requirements: Secondary Social Studies Education Track

Total Credits Required: 39

Course Requirements

Required Course – Credits: 3
• EPY 702 - Research Methods

Methods Course – Credits: 3
Complete one of the following courses:
• EPY 718 - Qualitative Research Methodologies
• EPY 721 - Descriptive and Inferential Statistics: An Introduction

Foundations Course – Credits: 3
Complete one of the following courses:
• CIG 603 - Urban Education
• CME 600 - Multicultural Education
• EPY 707 - Adolescent Development
• EPY 711 - Human Growth and Development
• EPY 712 - Foundations of Learning and Cognition

Core Courses – Credits: 9
• CIS 640 - Topics Secondary Social Studies Education
• CIS 644 - Instruction Secondary Social Studies Education
• CIS 649 - Curriculum Development Secondary Social Studies Education

Content Course – Credits: 3
Complete one of the following courses:
• CIT 608 - Integrating Technology in Teaching and Learning
• CIT 609 - Internet for Learning

Elective Courses – Credits: 9
Complete 9 credit hours of 600 or 700-level social science courses from History, Sociology or Political Science.

Seminar Course – Credits: 3
• CIG 649 - Social Studies Education Seminar

Thesis – Credits: 6
• CIG 699 - Curriculum and Instruction Thesis

Degree Requirements
1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.

2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. CIG 649 must be taken prior to CIG 699.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Complete and defend a thesis.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the C&I Department and the Graduate College the semester prior to registering for thesis hours. The form, “Prospectus Approval Form”, must be completed by the student, signed by the student's advisor, and returned to the T&L Department Graduate Studies Office (CEB 368A) three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 C&I Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 9 Requirements: Multicultural Education Track

Total Credits Required: 39

Course Requirements

Research Courses – Credits: 6
Required:
• EPY 702 - Research Methods
Complete one of the following courses:

- CIG 690 - Teachers as Action Researchers
- EOH 715 - Qualitative & Field Methods for Public Health
- SOC 608 - Qualitative Research
- SOC 705 - Qualitative Methods
- EPY 718 - Qualitative Research Methodologies
- JMS 711 - Qualitative Research Methods
- NURS 781 - Qualitative Research Methods in Nursing

Or another course in consultation with your advisor.

Foundations Course – Credits: 3

Complete one of the following courses:

- CIG 603 - Urban Education
- EPY 707 - Adolescent Development
- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition

Or another course in consultation with your advisor.

Instruction Course – Credits: 3

Complete one of the following courses:

- CIE 681 - Elementary School Instruction
- CIE 683 - Elementary Classroom Management
- CIE 685 - Elementary Education Curriculum
- CIG 602 - Differentiated Curriculum and Instruction
- CIS 682 - Secondary School Instruction
- CIS 684 - Secondary Education Curriculum

Or another course in consultation with your advisor.

Multicultural Education Courses – Credits: 9

Required:

- CME 600 - Multicultural Education

Complete two of the following courses:

- CME 620 - Topics Multicultural Education
- CME 640 - Theory and Research Multicultural Education
- CIL 693 - Literacy for a Diverse Society
- CIL 684 - Multicultural Literature
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CME 710 - Introduction to Cultural Studies in Education
- CIG 773 - Critical Literacies/Critical Pedagogies
- CME 700 - Social Justice Education

Or another course in consultation with your advisor.

Teaching English as a Second Language (TESL) Courses – Credits: 6

Required:

- TESL 751 - Theory and Practice for Academic English Language Development

Complete one of the following courses:

- TESL 752 - Methods and Curriculum for Teaching ELs
- TESL 753 - TESL Curriculum
- TESL 754 - Assessment and Evaluation of ELs
- TESL 755 - Language Acquisition and Development

Or another course in consultation with your advisor.

Cognate Courses – Credits: 6

Possible areas: Interdisciplinary Studies, History, Women's Studies, Literacy, Sociology, etc.

Courses should be selected in consultation with your advisor.

Culminating Experience – Credits: 6

- CIG 699 - Curriculum and Instruction Thesis

Degree Requirements

1. Students must complete a minimum of 39 credit hours with a minimum GPA of 3.00.
2. EPY 702 must be taken prior to EPY 718 or EPY 721.
3. In consultation with her/his advisor, the student will organize a thesis committee of at least three departmental members and a fourth member from outside the department, known as the Graduate College Representative. Additional committee members may be added at the student's and advisor's discretion. Please see Graduate College policy for committee appointment guidelines.
   1. Students must be enrolled in thesis credits the semester of graduation.
   2. A thesis prospectus must be filed with the T&L Department and the Graduate College the semester prior to registering for thesis hours. The form, “Prospectus Approval Form,” must be completed by the student, signed by the student’s advisor, and returned to the T&L Department Graduate Studies Office (CEB 359B). Three (3) weeks prior to the last day of instruction the semester before enrolling in six (6) semester hours of CIG 699 Thesis. The T&L Graduate Studies Office will obtain signatures from committee members and graduate coordinator before forwarding the form to the Graduate College.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing her/his degree requirements.

2. The student must submit and successfully defend her/his thesis by the posted deadline. The defense must be advertised and open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 9: Multicultural Education Track

CIE 508 - Classroom Management Elementary Education
Credits 3
Introduction to management of the elementary classroom by surveying literature in supervising psychosocial environment, physical environment, curriculum implementation, fundamentals of classroom control, discipline, and monitoring of student learning. Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Formerly CIE 659 Same as EDEL 408 Notes: Credit at the 500 level normally requires additional work. Prerequisites: CIE 601 and EDEL 311

CIE 533 - Teaching Elementary School Mathematics
Credits 3
Current methods and materials for teaching elementary school mathematics including review of content, objectives, curriculum, and assessment for developmentally appropriate instructional practices. Formerly CIE 652 Notes: This course is crosslisted with EDEL 433. Credit at the 500 level requires additional work. Prerequisites: PPST, MATH 122 and MATH 123 or EDE 431 or consent of instructor. Corequisite: Enrollment in a practicum.

CIE 543 - Teaching Elementary School Science
Credits 3
Current methods and materials for teaching life, physical, and earth sciences using process skills, guided discovery activities, and curriculum integration techniques. Notes: This course is crosslisted with EDEL 443. Credit at the 500-level requires additional work. Corequisite: Enrollment in a practicum.

CIE 553 - Teaching Elementary School Social Studies
Credits 3
Current methods and materials for teaching social studies. Notes: This course is crosslisted with EDE 453. Credit at the 500-level requires additional work.

CIE 601 - Elementary Teacher Development Seminar
Credits 3
Designed for candidates entering the Elementary Alternative Route Licensure program. Examines contemporary trends for developing classroom expertise with minimum of 150 hours of field experiences in an elementary classroom. Focus on theory and practice in fostering personal and professional development for candidates. Formerly CIE 701 Same as CIS 601 Prerequisites: Graduate standing. Corequisite: Admission Graduate Licensure Program.

CIE 620 - Topics Elementary School Mathematics
Credits 1 – 3
Examines specific topics and issues in elementary school mathematics. Formerly CIE 720 Same as CIS 620 Notes: Maximum of six credits accepted toward degree. Prerequisites: EDE 433 or CIE 533 and current teaching certificate.

CIE 623 - Instruction Primary Elementary Mathematics Education
Credits 3
Study of research-based practices and methods in primary elementary school mathematics education. Formerly CIE 723 Prerequisites: EDE 433 or CIE 533 or ECE 454 and current teaching certificate.

CIE 625 - Instruction Intermediate Elementary Mathematics Education
Credits 3
Study of research-based practices and methods in intermediate elementary school mathematics education. Formerly CIE 725 Prerequisites: EDE 433 or CIE 533 and current teaching certificate.

CIE 627 - Technology Applications K-8 Mathematics Education
Credits 3
Research-based study of the integration of technology into the teaching of mathematics in grades K-8. Formerly CIE 727 Prerequisites: One 600-level mathematics instruction course or consent of instructor.

CIE 629 - Curriculum Development in Elementary School Mathematics
Credits 3
Emphasizes research and curriculum studies dealing with content and procedures of elementary school mathematics programs. Formerly CIE 729 Same as CIS 629 Prerequisites: One 600-level mathematics instruction course or consent of instructor.
CIE 630 - Topics Elementary School Science Credits 1 – 3
Examines specific topics and issues in elementary school science. Formerly CIE 730 Same as CIS 630 Prerequisites: EDEL 443 or CIE 543 and current teaching certificate.

CIE 635 - Instruction Elementary Science Education Credits 3
Study of research-based practices and methods in elementary school science education. Formerly CIE 735 Prerequisites: EDEL 443 or CIE 543 and current teaching certificate.

CIE 637 - Technology Applications K-8 Science Education Credits 3
Research-based study of the integration of technology into the teaching of science in grades K-8. Formerly CIE 737 Prerequisites: EDEL 443 or CIE 543 and current teaching certificate or consent of instructor.

CIE 639 - Curriculum Development Elementary Science Education Credits 3
Emphasizes research and curriculum studies dealing with content and procedures of elementary school science programs. Formerly CIE 739 Prerequisites: One 600-level science instruction course or consent of instructor.

CIE 640 - Topics Elementary School Social Studies Credits 1 – 3
Examines specific topics and issues in elementary school social studies. Formerly CIE 740 Same as CIS 640 Notes: Maximum of six credits accepted toward degree. Prerequisites: EDEL 453 or CIE 553 and current teaching license.

CIE 645 - Instruction Elementary Social Studies Education Credits 3
Study of research-based practices and methods in elementary school social studies education. Formerly CIE 745 Prerequisites: EDEL 453 or CIE 553 and current teaching license.

CIE 649 - Curriculum Development Elementary Social Studies Education Credits 3
Emphasizes research and curriculum studies dealing with content and procedures of elementary school social studies programs. Formerly CIE 749 Same as CIS 649 Prerequisites: EDEL 453 or CIE 553 and current teaching license.

CIE 681 - Elementary School Instruction Credits 3
Research basis for developing and implementing instructional strategies and models of teaching for the elementary classroom. Formerly CIE 701 Prerequisites: Current teaching certificate.

CIE 683 - Elementary Classroom Management Credits 3
Advanced study in managing various aspects of the classroom including establishing and maintaining positive psychosocial environments; rules, routines, and procedures to minimize disruption; discipline plans; and enriched curricula. Formerly CIE 702 Prerequisites: Current teaching certificate.

CIE 685 - Elementary Education Curriculum Credits 3
Current research, influences, trends and issues in the modern elementary school curriculum. Recommended as a culminating course. Formerly CIE 703 Prerequisites: Current teaching certificate.

CIG 600A - Curriculum and Instruction Credits 1 – 6
Specialized course in curriculum and instruction designed to develop depth in understanding a current educational topic for the in-service teacher. Formerly CIG 700 Notes: Maximum of six credits accepted toward a degree.

CIG 601 - Curriculum and Instruction Urban Settings Credits 3
This course is a research-based study of elementary and secondary education in urban settings that blends curriculum and instruction to develop an in-depth understanding of contemporary educational practices. Formerly CIG 701

CIG 602 - Differentiated Curriculum and Instruction Credits 3
Research-based study of strategies to differentiate curriculum and instruction in order to effectively assess learner needs, modify curriculum materials, plan and implement instruction, develop assignments, and evaluate learning outcomes. Formerly CIG 702

CIG 603 - Urban Education Credits 3
Analysis of the needs and problems of pupils in the urban school, with special emphasis on the development of relevant curricula and teaching strategies. Field work on a pertinent problem required. Formerly CIG 703 Prerequisites: Subject area undergraduate methods course.

CIG 605 - Elementary and Secondary Methods and Assessments for Global Teaching Credits 3
Introduction to the International Baccalaureate (IB) Curriculum and Professional Learning Foundations in Teaching Methods and Assessments for the Primary Years Program, Middle Years Program, Diploma Program and the Career Related Program.

CIG 608 - Field Experience in International Baccalaureate School Credits 3
Apply content acquired in methods courses to field-based experiences. Prerequisites: Enrollment in the Graduate Certificate in Global Teaching program.

CIG 620 - Principles of Learning Mathematics Credits 3
Study of research involving cognitive factors that impact the learning of mathematics. Formerly CIG 720 Prerequisites: One 600-level course in mathematics instruction or consent of instructor.

CIG 621 - Diagnostic Assessment School Mathematics Credits 3
Examination of seminal and current mathematics education research through readings, writings, discussions and presentations. Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIG 629 - Mathematics Education Seminar Credits 3
Examination of seminal and current mathematics education research through readings, writings, discussions and presentations. Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIG 639 - Science Education Seminar Credits 3
Examination of seminal and current science education research through readings, writings, discussions and presentations. Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIG 650 - Art History for Art Educator Credits 3
Study of art history and its relationship to the design and implementation of art curriculum in elementary and secondary education. Formerly CIG 710

CIG 651 - Aesthetics and Criticism Art Education Credits 3
Study of aesthetics and art criticism concepts as curricular content in elementary and secondary art education. Formerly CIG 711

CIG 652 - Technology Applications Art Education Credits 3
Research-based study of the integration of technology into the teaching and learning of elementary and secondary art education curriculum. Formerly CIG 712

CIG 653 - Instructional Discipline-Based Art Education Credits 3
Study of research-based practices and methods in the teaching of discipline-based elementary and secondary school art education. Formerly CIG 713

CIG 667 - Teaching about Latina/Latino Experiences in Education Credits 3
Examine the various sociopolitical, sociocultural, sociohistorical, and other factors that have shaped, and continue to shape, the PK-16 schooling experiences of Latina/Latino youth. Learn to use a community cultural wealth lens to develop critical understanding of the educational challenges that Latina/Latino students’ encounter in schools. Notes: This course is crosslisted with WMST 699. Credit the 600-level requires additional work.
CIG 680 - Developing Social Emotional Competence in Teachers and Professional Leaders  
Cred 3  
Recognizing social and emotional factors that influence student learning, analyzing student needs and planning for classroom supports to meet those needs. Emphasis on students’ contexts and how to successfully engage families.

CIG 681 - Curriculum Implementation and Innovation  
Cred 3  
International Baccalaureate (IB) Curriculum and Professional Learning Foundations in Curriculum Implementation and Innovation for the Primary Years Program, Middle Years Program, Diploma Program and the Career Related Program. Prerequisites: CIG 704

CIG 682 - Reflective Practice in Teaching  
Cred 3  
Focuses on the theoretical bases, roles, approaches, and dimensions of teacher reflection. Provides students opportunities for reflective practice to improve teaching. Students acquire important knowledge and basic skills of teacher reflection necessary to be a master teacher. Formerly CIG 700

CIG 683 - Dynamic Teaching Practices  
Cred 3  
Develop teacher-as-facilitator perspectives at the building level and leverage research-based teaching practices to increase student achievement. Coursework will be tied to the state teacher evaluation framework and steeped in adult learning theory.

CIG 684 - Data Literacy for Teacher and Professional Leaders  
Cred 3  
How to design assessments that are valid and reliable. How to develop instruction based on multiple sources of formative and summative data for all areas.

CIG 685 - Peer Assistance and Review  
Cred 3  
Overview of policy regarding teacher evaluations with an emphasis on the state's teacher evaluation. Emphasis will be given to successfully coaching peers through the review process.

CIG 686 - Teachers and Professionals as Change Agents  
Cred 3  
Foundations of policy, advocacy, and equity within various systems and structures. Explore capacities and roles of teacher leaders as change agents at the school/building/community as well as state and national levels.

CIG 687 - Coaching High-Leverage Field Practices  
Cred 3  
Contextualize high-level field practices for building-level leadership. Activities include the development of mentorship plans that consider content and context. Field component required. Prerequisites: Nine hours of graduate coursework.

CIG 688 - Teaching and Learning Seminar  
Cred 3  
Examination of seminal and current research in education or licensed professionals’ disciplines through student-directed readings, discussions, and presentations.

CIG 689 - Curriculum and Instruction Seminar  
Cred 1 - 3  
Examination of seminal and current mathematics education research through readings, writings, discussions and presentations. Formerly CIG 717 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIG 690 - Teachers as Action Researchers  
Cred 3  
Surveys literature on classroom action research as a new genre of research, examines important issues in the field of teacher research, and helps students begin conducting action research in their own classrooms. Students develop an action research project. Formerly CIG 705

CIG 692 - Curriculum Evaluation in Education  
Cred 3  
Study of research-based practices in general and specific curriculum evaluation. Notes: Requires a field-based curriculum evaluation project related to an elementary or secondary subject area and basic knowledge of statistics, research methodology, and curriculum theory. Prerequisites: CIE 685 or CIS 686 or consent of instructor.

CIG 697 - Curriculum and Instruction Culminating Experience  
Cred 1 – 3  
Culminating experience for M.Ed. students. Includes a selection of faculty approved options such as a comprehensive examination, professional manuscript or presentation, eportfolio project, or other equitable curricular experiences. Formerly CIG 715 Grading: S/F grading. Prerequisites: Thirty hours graduate course work.

CIG 698 - Curriculum and Instruction Professional Paper/Project  
Cred 3  
Culminating activity for M.Ed. students. Paper/project requires the student to identify an educational issues applicable to a professional setting and conduct in-depth study or action research concerning the issue. Formerly CIG 718 Notes: Maximum of six credits accepted toward a degree. Grading: S/F grading only.

CIG 699 - Curriculum and Instruction Thesis  
Cred 3 – 9  
Culminating activity for M.S. Students. Formerly CIG 719 Notes: Maximum of nine credits accepted toward a degree. Grading: S/F grading only. Prerequisites: CIG 689 and consent of instructor.

CIG 700 - Mentoring Strategies to Improve Teaching  
Cred 3  
Addresses underlying theory of mentoring and development of mentoring strategies and practices. Aims to improve mentoring practices of experienced teachers working with novice teachers. Prerequisites: Consent of instructor.

CIG 716 - Reading and Conference  
Cred 1 – 3  
Independent reading and study conference with assigned professor. Notes: Maximum of six credits accepted toward a degree. Prerequisites: Must be approved prior to registration.

CIG 760R - Inquiry into Teacher Education  
Cred 3  
Supports students in analyzing major issues, questions, and trends in teacher education as well as the social, historical, and theoretical backgrounds. Familiarizes students with various forms of literature in the field of teacher education. Engages students in writing literature reviews and conference proposals.

CIG 761 - Theoretical Foundations of Education  
Cred 3  
Examines the historical, philosophical, sociological, and cultural foundations of teaching and learning. Prerequisites: Doctoral status; or consent of instructor.

CIG 762 - Instructional Strategies and Learning to Teach in Higher Education  
Cred 3  
Focuses on the past, present, and evolving pedagogical content of teacher education. Topics include: the role and work of the teacher educator, teacher educator curricular issues, and effective teaching strategies for working with adult learners. Prerequisites: Doctoral status.

CIG 763 - Advanced Research in Teaching and Teacher Education  
Cred 3  
Broad overview of the process of learning to teach that begins long before a teacher enrolls in education courses. Explores empirical and conceptual questions about teacher learning across the career. Prerequisites: Doctoral status.

CIG 764 - Models of Teaching  
Cred 3  
Considers the wide variety of approaches to teaching through historical, theoretical and research perspectives. Emphasis on the identification of models of teaching most appropriate to the objectives of individual lessons. Prerequisites: Doctoral status.

CIG 766 - Evaluation of Teaching  
Cred 3  
Survey of current methods in evaluating teaching including summative and formative evaluation; high and low inference instruments; validity, reliability and legal issues; and techniques of data gathering. Explores evaluation as a method of improving instruction. Prerequisites: EPY 702 and Doctoral status.

CIG 767 - Human Relations for the Teacher Educator  
Cred 3  
Inquiry into the role of cultural, racial, and social minorities in education. Prerequisites: Doctoral status.
CIG 768 - Advanced Curriculum Studies Credits 3
Examines various philosophical and theoretical traditions in contemporary Curriculum Studies, including progressive educational thought, postmodern, post-structural, psychoanalytic, Marxist, postcolonial, feminist, and queer theory. One of three courses that fulfills the requirement for two Educational Foundations courses. Prerequisites: Doctoral status.

CIG 770 - Current Trends and Issues in Education Credits 3
Contemporary trends and issues in curriculum development, teaching and learning in education. Prerequisites: Doctoral status or consent of instructor.

CIG 773 - Critical Literacies/Critical Pedagogies Credits 3
Explores the work of Paulo Freire and the development of Critical Literacy and Critical Pedagogy. Notes: This is a required course for students of International and Cultural Studies and can be used as an elective for those doctoral students in literacy education. Prerequisites: Doctoral Status or Consent of Instructor

CIG 775 - Theoretical Frameworks for Science Education Credits 3
Examines the backgrounds and applications of a variety of theoretical frameworks for qualitative, quantitative, and mixed-methods research in science education, including constructivist, hermeneutic, and critical theory frameworks. Students will analyze and critique such frameworks as they apply toward their own potential research topics. Prerequisites: Doctoral Status or Consent of Instructor

CIG 776 - Philosophical Foundations of Science Education Credits 3
An exploration of the works of twentieth century philosophers of science who were most influential in shaping the thinking about science among science education community. Aims to help participants develop informed and critical views of nature of science and its implications for science teaching and learning. Prerequisites: Doctoral status or Consent of Instructor

CIG 777 - Principles of Learning Science Credits 3
This advanced course is designed to develop an understanding of the theoretical ideas related to how people learn scientific concepts. Using a combination of current research from cognitive science, educational psychology, and evaluations of classroom interventions, students will explore a range of topics that relate directly to science learning. Prerequisites: Consent of instructor.

CIG 779 - Advanced Seminar in Curriculum and Instruction Credits 3
Concentrated study of literature on specified topics in curriculum and instruction studies. Specific topic announced in the schedule of classes. Notes: Maximum of six credits accepted toward a degree. Prerequisites: Doctoral status and consent of instructor.

CIG 780 - Research on Teaching and Schooling Credits 3
Examines, analyzes, and critiques research literature in contexts and cultures of teaching and schooling, teachers’ knowledge and beliefs, school change and teacher change processes, and schooling for diverse learners. Prerequisites: Doctoral status. CIG 702 and CIG 761 or consent of instructor.

CIG 781 - Theories and Research in Classroom Management Credits 3
Assists teacher educators in exploring major models of classroom management with emphasis on developing strategies to promote teacher growth. Models include behavioristic, humanistic, and cognitive approaches toward managing student behavior. Development of classroom routines, preventive discipline, and organization of classroom environment. Prerequisites: Doctoral status.

CIG 782 - School Climate Credits 3
Study of research on effective schools relative to school climate; curricular, instructional, psychological, affective, and processing. Emphasis on utilization of research in developing and inservice education. Prerequisites: Doctoral status.

CIG 783 - Theory and Research in School Mathematics Credits 3
Analysis and evaluation of theories and research in school mathematics methods and curriculum with emphasis on theories and research leading to contemporary programs. Notes: Maximum of six credits accepted toward a degree. Prerequisites: Doctoral status. Six hours of course work in educational research, one 700-level course in mathematics methods, and consent of instructor.

CIG 784 - Theory and Research in School Science Credits 3
Analysis and evaluation of theories and research in school science methods and curriculum with emphasis on theories and research leading to contemporary programs. Notes: Maximum of six credits accepted toward a degree. Prerequisites: Doctoral status. Six hours of course work in educational research, one 700-level course in science methods, and consent of instructor.

CIG 786 - Individual Instruction in Education Credits 1 – 6
Application of theory, actual research, or replication of studies related to school education. Notes: Maximum of six credits accepted toward degree. Must be approved prior to registration. Prerequisites: Doctoral status.

CIG 787 - Individual Instruction in Mathematics Education Credits 3
Application of theory, actual research, or replication of studies related to mathematics education. Notes: Maximum of six credits accepted toward degree. Must be approved prior to registration. Prerequisites: Doctoral status.

CIG 788 - Individual Instruction in Science Education Credits 3
Application of theory, actual research, or replication of studies related to science education. Notes: Maximum of six credits accepted toward degree. Must be approved prior to registration. Prerequisites: Doctoral status.

CIG 790 - Doctoral Research Seminar Credits 3
Designed to assist a cohort of doctoral students in varying stages of dissertation development: prospectus writing, research design, data collection, data analysis, and oral defense. Notes: Maximum of nine credits accepted toward a degree. Prerequisites: Doctoral status.

CIG 791 - Internship in Curriculum and Instruction Credits 1 – 3
Individually structured apprenticeship experience preparing students for future service. Requires up to 50 hour of work experience for each credit earned. Notes: Maximum of twelve credits accepted toward a degree. Prerequisites: Doctoral status and consent of instructor.

CIG 799 - Dissertation Credits 3
May be taken for variable credits over a period of several semesters, with final grade being withheld until the dissertation has been successfully defended. Once a student enrolls in CIG 799, enrollment must be continuous until the dissertation is successfully defended. Notes: May be repeated but only a maximum of 24 credits may be allowed in the student's program. Grading: S/F grading only. Prerequisites: Consent of advisor. 3-24 credits in increments of three.

CIG 609 - Residency in International Baccalaureate School Credits 8
Full-time teaching as a teacher candidate in a K-12 school related directly to the student's program of study teaching field(s). Prerequisites: Enrollment in the Graduate Certificate in Global Teaching program.

CIL 501 - Children's Literature Elementary School Curriculum Credits 3
Exposes teacher candidates to a wide range of children's literature and develops knowledge for selecting and sharing quality children's literature in the elementary classroom. Focuses on the role that children's literature plays in the elementary curriculum. Formerly CIL 615 Notes: This course is crosslisted with EDRL 401. Credit at the 500-level requires additional work.

CIL 511 - Teaching Language Arts Elementary Schools Credits 3
Current methods and materials for teaching language arts including oral language arts including oral language development, speaking and listening, written expression, spelling, and handwriting.
CIL 542 - Literacy Instruction I  
Credits 3  
Methods of instruction and assessment for primary grade readers and writers. Designed to help teacher candidates acquire knowledge and strategies related to literacy development and engagement through classroom application, reflection, analysis, and implementation of lessons with diverse learners. Formerly CIL 655 Notes: This course is crosslisted with EDRL 442. Credit at the 500-level requires additional work. Prerequisites: Passing of Praxis Core: Reading 156; Writing 162; Math 15 Corequisite: Enrollment in a practicum.

CIL 600 - Topics Literacy Education  
Credits 1 – 6  
Examines specific topics and issues of content, materials, methods, and procedures related to literacy and literacy learning. Formerly CIL 702 Notes: Maximum of six credits accepted toward a degree.

CIL 601 - Foundations of Literacy Learning  
Credits 3  
Surveys theories and historical trends leading up to present day literacy instruction. Incorporates application of current research to the methods and philosophies of teaching reading and writing. Formerly CIL 701

CIL 604 - Literacy Instruction for Young Children  
Credits 3  
Current trends, practices, materials, and methods utilized in grades K-3. Includes language development, reading and writing development, and application of current research. Notes: May include field experience. Prerequisites: CIL 601 or CILR 601

CIL 607 - Comprehensive Reading Instruction  
Credits 3  
Study of historical developments, theoretical underpinnings and practical applications of a comprehensive approach to literacy instruction. Prerequisites: CIL 601 or consent of instructor.

CIL 610 - Content Area Literacy  
Credits 3  
Development of literacy processes and strategies in content areas. Formerly CIL 710

CIL 616 - Teaching Writing  
Credits 3  
Study of research-based practices and methods in teaching and assessing writing. Throughout the course students will explore the writing process through personal writing assignments. Formerly CIL 716

CIL 617 - Southern Nevada Writing Project: Invitational Institute  
Credits 3  
Participants in the SNWP Invitational Institute explore writing and the teaching of writing by engaging in the process themselves, demonstrating effective writing practices, planning school and community-based inquiry, and reading and responding to professional resources. Formerly CIL 717 Notes: As an invitational institute, application and interview process required. May be repeated to a maximum of six credits. Prerequisites: Application and interview.

CIL 621 - Assessment in Literacy  
Credits 3  
Examines naturalistic assessment procedures in literacy based on a holistic philosophy. Students expected to field test selected assessment procedures. Strategies for improving instruction presented. K-12 perspective. Formerly CIL 721 Prerequisites: CIL 601 or consent of instructor.

CIL 622 - Practicum Literacy Diagnosis and Instruction  
Credits 3  
Practicum in the application of principles, materials, and instructional strategies for teaching students with literacy difficulties. Formerly CIL 722 Prerequisites: CIL 621

CIL 642 - Instruction English Education  
Credits 3  
Designed to connect the study of curriculum theory and research related to the teaching of English with the practices of teacher in the secondary English classroom. Methods for reading, writing, speaking and listening skills addressed. Formerly CIL 712

CIL 643 - Curriculum Development English Education  
Credits 3  
Emphasizes research and curriculum studies dealing with content and procedures in the English/language arts. Formerly CIL 713

CIL 671 - Materials Selection School Library  
Credits 3  
Study of research-based practices and methods of assessing and selecting school library material to meet curricular needs and reading interests and abilities of students. Methods of acquisition include design and implementation of collection development policies and survey of bibliographic tools used in the selection of K-12 materials. Formerly CIL 731

CIL 672 - Reference Methods and Resources School Library  
Credits 3  
Study of research-based practices and methods of the school library's informational curricular support function including the role of the school library specialist as an information resource consultant, teacher and instructional partner. Examines selected print and electronic reference tools including dictionaries, encyclopedias, yearbooks, periodical indexes and subject area references. Formerly CIL 732

CIL 673 - Technology Applications School Library  
Credits 3  
Examines the issues and methods for the application of library science-based technology in the school library. Formerly CIL 733

CIL 674 - Organization and Classification School Library  
Credits 3  
Study of research-based principles and strategies for planning, organizing and administering school library programs and practices related to policy development, budgets, personnel, public relations, facilities planning, and systematic program planning and evaluation. Formerly CIL 735 Prerequisites: CIL 674

CIL 675 - Administration School Library  
Credits 3  
Supervised library practicum under the direction of professional librarians in school settings. Formerly CIL 736 Prerequisites: CIL 674 Corequisite: Concurrent or prerequisite CIL 675.

CIL 680 - Contemporary Literature Children and Young Adults  
Credits 3  
Designed for teachers and librarians. Evaluation, selection, and use of recent literature for children and young adults. Formerly CIL 740 Notes: May be repeated after a six-year period.

CIL 684 - Multicultural Literature  
Credits 3  
Study and critical evaluation of multicultural and multiethnic literature and media for children and young adults. Formerly CIL 741

CIL 687 - Literature-Based Instruction  
Credits 3  
Study and application of principles and techniques of teaching reading and language arts with children's literature (trade books) as primary content. Formerly CIL 742 Prerequisites: CIL 680, CIL 681 or CIL 682

CIL 688 - Historical Development of Literature  
Credits 3  
Survey of the development of literature for children; investigation of social and cultural factors affecting children's reading and the publication of children's books during different periods of United States history; critical analysis of the literary value of children's books. Formerly CIL 743 Prerequisites: CIL 680, CIL 681, or CIL 682 or consent of instructor.

CIL 691 - Organization and Supervision Literacy Programs  
Credits 3  
For individual serving in or preparing for leadership roles in literacy. Emphasis on the effects of education reform; evaluation of model programs; design, implementation and evaluation of district-wide programs; development of guidelines for staff development. Formerly CIL 726 Prerequisites: Fifteen hours graduate coursework in literacy or consent of instructor.
CIL 693 - Literacy for a Diverse Society  Credits 3  
Advanced course work focuses on literacy issues for students, including diverse learners from various cultures, socioeconomic backgrounds, and language groups. Formerly CIL 728  
Prerequisites: Fifteen hours graduate coursework in literacy or consent of instructor.

CIL 699 - Literacy Research Seminar  Credits 3  
Examination of seminal and current literacy education research through readings, writings, discussions, and presentations. Formerly CIG 717  
Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIL 747 - Literary Theories and Children’s Literature  Credits 3  
Explores various theoretical positions within the framework of literary theory and how these positions have influenced reading and literature instruction. Participants will come to understand a range of perspectives within literary theory and be able to relate these theories to reading comprehension and literacy development. Prerequisites: CIL 740 or CIL 741

CIL 772 - Cognitive Foundations of Literacy  Credits 3  
Examines theories and research on cognition related to literacy learning and programs of literacy instruction for adults and children. Required of doctoral students in the literacy emphasis sequence. Prerequisites: Doctoral status.

CIL 774 - Historical Foundations of Literacy Research and Instruction  Credits 3  
Examines the historical foundations of literacy research and instruction.  
Overview of significance of research and theories within literacy and the implications for instruction today. Prerequisites: Doctoral status.

CIL 776 - Social and Political Issues in Literacy  Credits 3  
Examines the social and political implications of literacy access and development by investigating the role of literacy in culture, government, economics, technology and its future in society. Prerequisites: CIL 772 and CIL 774 or consent of instructor. Doctoral status.

CIL 782 - Theory and Research in the English/Language Arts  Credits 3  
Critical interpretation and evaluation of research and theoretical writing in English/language arts. Notes: Maximum of six credits accepted toward a degree. Prerequisites: EPY 702 and EPY 721 or consent of instructor. Doctoral status.

CIL 784 - Theory and Research in Literacy  Credits 3  
Critical review of major studies in literacy with the student identifying an area or areas which warrant investigation; planning a possible implementation of research proposal. Notes: Maximum of six credits accepted toward a degree. Prerequisites: Six hours of educational research from EPY 718, EPY 721, or EPY 722. Doctoral status.

CILR 601 - Foundations Literacy Learning  Credits 3  
Surveys theories and historical trends leading up to present day literacy instruction. Incorporates application of current research to the methods and philosophies of teaching reading and writing.

CILR 604 - Literacy Instruction for Young Children  Credits 3  
Current trends, practices, materials, and methods utilized in grades K-3. Includes language development, reading and writing development, and application of current research.

CILR 607 - Comprehensive Reading Instruction  Credits 3  
Study of historical developments, theoretical underpinnings and practical applications of a comprehensive approach to literacy instruction.

CILR 610 - Content Area Literacy  Credits 3  
Development of literacy processes and strategies in content areas.

CILR 621 - Assessment in Literacy  Credits 3  
Examines naturalistic assessment procedures in literacy based on a holistic philosophy. Students expected to field test selected assessment procedures. Strategies for improving instruction presented. K-12 perspective.

CILR 622 - Practicum Literacy Diagnosis and Instruction  Credits 3  
Practicum in the application of principles, materials, and instructional strategies for teaching students with literacy difficulties.

CILR 680 - Contemporary Literature for Children & Young Adults  Credits 3  

TESL 761 - Literacy Development in the Bilingual Classroom  Credits 3  
Current trends, practices, materials, and methods in literacy instruction in a bilingual (Spanish-English) classroom, including Spanish language development, reading and writing development, and application of research. 

TESL 764 - Assessment Bilingual Classroom  Credits 3  
Assessment of bilingual (Spanish-English) students; selection of appropriate bilingual (Spanish-English) assessment instruments, their administration, scoring, and interpretation. Formerly CIL 664.  
Prerequisites: TESL 752

TESL 765 - Curriculum Development Bilingual Classroom  Credits 3  
Principles of curriculum organization, development, adaptation, and implementation of a bilingual (Spanish-English) curriculum.  
Prerequisites: TESL 752

CIG 649 - Social Studies Education Seminar  Credits 3  
Examination of seminal and current social studies education research through readings, writings, discussions and presentations. Prerequisites: Fifteen hours of graduate coursework or consent of instructor.

CIG 720 - Principles of Mathematics Learning  Credits 3  
Study of research involving cognitive factors that impact the learning of mathematics.

CIS 513A - Teaching Secondary Art  Credits 3  
Provides an overview of methods and materials to include instructional strategies, curriculum standards, and classroom management techniques for teaching secondary school art. Students must have completed or be currently enrolled in courses to complete three-fourths of the content coursework in art. Corequisite: CIS 602, CIS 603

CIS 543 - Teaching Secondary Foreign/Second Language  Credits 3  
Provides an overview of theories, methods, materials to include instructional strategies, curriculum standards, and classroom management techniques for teaching Languages Other Than English (LOTE) at the secondary school level. Students must have completed or be currently enrolled in courses to complete three-fourths of the content coursework in LOTE. Prerequisites: 20-24 semester credit hours of LOTE. Corequisite: CIS 602, CIS 603

CIS 553M - Teaching Middle School Mathematics  Credits 3  
Explore mathematics and its relation to education in grades 6 through 9. The focus is to develop skills in planning and teaching mathematics. Lessons incorporate use of technology, cooperative learning, and manipulatives while providing an environment to construct knowledge about arithmetic, algebra, geometry, probability, and statistics. Evaluation using formative and summative strategies. Notes: This course is crosslisted with EDM 453. Credit at the 500-level requires additional work. Prerequisites: PPST Corequisite: Concurrent enrollment in a practicum
CIS 553S - Teaching Secondary Mathematics  Credits 3
The focus is on developing skills in planning and teaching mathematics for grades 9–12 that are consistent with Mathematics Standards. Students explore instructional strategies to develop understanding of concepts in the topic areas of arithmetic, algebra, geometry, trigonometry, calculus, probability, and statistics. Evaluation procedures use formative and summative strategies. Notes: This course is crosslisted with EDSC 453. Credit at the 500-level requires additional work. Prerequisites: PPST Corequisite: Concurrent enrollment in a practicum.

CIS 563 - Teaching Secondary Science  Credits 3
This course is designed for candidates intending to teach high school science. Course topics include: assessing knowledge before instruction, designing curriculum, planning lessons, promoting inquiry-oriented teaching, teaching about evolution and nature of science, scientific literacy, laboratory safety, national and state standards, using technology, and assessing student learning. Notes: This course is crosslisted with EDSC 463. Credit at the 500-level requires additional work. Prerequisites: PPST Corequisite: Enrollment in a practicum and CIS 702.

CIS 573 - Teaching Secondary Social Studies  Credits 3
Teaching Secondary Social Studies

CIS 601 - Secondary Teacher Development Seminar  Credits 3
Designed for students entering the Secondary Graduate Licensure program. Examines contemporary trends for developing classroom expertise with observations in a middle or high school setting. Focuses on theory and practice in fostering personal and professional development for inservice teachers. Formerly CIS 701 Same as CIE 601. Prerequisites: Graduate standing. Corequisite: Admission to Graduate Licensure Program.

CIS 602 - Secondary School Practicum  Credits 3
Designed for Secondary Graduate Licensure students. Exposure to contemporary urban educational settings and basic management and planning strategies through structured experiences in a middle or high school settings, supplemented with campus-based instruction. Formerly CIS 702 Prerequisites: PPST and CIS 601 Corequisite: CIS 603 and subject area methods.

CIS 603 - Secondary Process and Instruction  Credits 3
Designed to examine effective teaching practices and theories. Students examine research literature in classroom organization and management, instructional planning, classroom contexts and conditions. Provides analyses of the secondary classroom processes, school context, and the community at large. Formerly CIS 703 Prerequisites: PPST and CIS 601 Corequisite: CIS 602 and subject area methods.

CIS 604 - Secondary Classroom Management  Credits 3
Students engage in the examination of theories, models and application of classroom management to develop a personal philosophy and effective practices of managing contemporary middle and high school classrooms. Formerly CIS 711 Prerequisites: Graduate standing

CIS 617 - Topics Secondary Education  Credits 1 – 3
Examines specific topics and issues related to content in secondary subjects. Formerly CIS 707 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Current teaching certificate or consent of instructor.

CIS 618 - Instructional Methods Secondary School  Credits 3
Study of research-based practice and methods related to curricular content in specific secondary subjects. Formerly CIS 708 Prerequisites: Current teaching certificate or consent of instructor.

CIS 620 - Topics Secondary School Mathematics  Credits 1 - 3
Examines specific topics and issues related to content and pedagogy in secondary mathematics education. Same as CIE 620 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Secondary mathematics undergraduate methods course and current teaching certificate.

CIS 622 - Instructional Middle School Mathematics Education  Credits 3
Study of research-based practice and methods in middle school mathematics education. Prerequisites: EDEL 433 or EDMS 453 or EDSC 453 or consent of instructor.

CIS 624 - Instruction Secondary Mathematics Education  Credits 3
Study of research-based practice and methods in secondary school mathematics education. Formerly CIS 724 Prerequisites: EDMS 453 or EDSC 453 or consent of instructor.

CIS 628 - Technology Application in Secondary Mathematics Education  Credits 3
Study of research-based practice and methods in secondary school mathematics education. Formerly CIS 728 Prerequisites: CIS 622 or CIS 624 or consent of instructor.

CIS 629 - Curriculum Development Secondary Mathematics Education  Credits 3
Examines research and curriculum studies related to content and procedures within secondary school mathematics programs. Same as CIE 629 Prerequisites: CIS 622 or CIS 624 or consent of instructor.

CIS 630 - Topics Secondary School Science  Credits 1 - 3
Examines specific topics and issues related to content and pedagogy in secondary science education. Same as CIE 630 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Current teaching certificate or consent of instructor.

CIS 632 - Instruction Middle School Science Education  Credits 3
This course is designed for teachers of middle school science. Course topics include: assessing knowledge before instruction, designing curriculum, planning lessons, promoting inquiry-oriented teaching, teaching about evolution and nature of science, scientific literacy, laboratory safety, national and state standards, using technology, and assessing student learning. Prerequisites: EDSC 463 or consent of instructor.

CIS 634 - Instruction Secondary Science Education  Credits 3
Study off research-based practice and methods in secondary school science education. Prerequisites: EDSC 463 or EDSC 563 and current teaching certificate or consent of instructor.

CIS 638 - Technology Applications in Secondary Science Education  Credits 3
Study and development of research-based practices and methods of using computer-based technology to teach science in secondary schools. Formerly CIS 738 Prerequisites: CIS 632 or CIS 634 or consent of instructor.

CIS 639 - Curriculum Development Secondary Science Education  Credits 3
Examines research and curriculum studies related to content and procedures within secondary school science programs. Same as CIE 639 Prerequisites: CIS 632 or CIS 634 or consent of instructor.

CIS 640 - Topics Secondary Social Studies Education Credits 1 - 3
Examines specific topics and issues related to content and pedagogy in secondary social studies education. Same as CIE 640 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Current teaching certificate or consent of instructor.

CIS 644 - Instruction Secondary Social Studies Education  Credits 3
Study of research-based practice and methods in secondary school social studies education. Prerequisites: EDSC 473 or EDSC 573 and current teaching certificate.

CIS 649 - Curriculum Development Secondary Social Studies Education  Credits 3
Examines research and curriculum studies related to content and procedures within secondary school social studies programs. Same as CIE 649 Prerequisites: CIS 644 or consent of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIT 608</td>
<td>Secondary School Instruction</td>
<td>3</td>
<td>Examines effective teaching practices derived from classroom-based research. Includes instructional planning, instructional strategies, motivational techniques, teaching models, and the teacher-as-researcher. Formerly CIS 704 Prerequisites: EDSC 481 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 684</td>
<td>Secondary Education Curriculum</td>
<td>3</td>
<td>Examines the major input variables to curriculum decision-making at the secondary level. Emphasis on the levels of curriculum decision-making, decision implementations, and curriculum evaluation. Formerly CIS 705 Prerequisites: EDSC 481 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 686</td>
<td>Curriculum Development Secondary Education</td>
<td>3</td>
<td>Introduces problem of conducting systematic inquiry in the curriculum field related to a subject area discipline, including generation of practical programs, curriculum research and theory, innovative proposals, and critical analysis. Current status of field, literature sources, and work of leading scholars. Prerequisites: CIS 618 or CIS 684</td>
</tr>
<tr>
<td>CIT 600</td>
<td>Topics in Educational Technology</td>
<td>1 - 6</td>
<td>Specialized course that explores current educational technology topics.</td>
</tr>
<tr>
<td>CIT 601</td>
<td>Technology Applications Elementary Curriculum</td>
<td>3</td>
<td>Study of issues and applications of digital technologies in elementary schools. Students will explore appropriate uses of technology and gain hands-on experience in developing instructional activities using technology applications. Formerly CIT 701 Same as CIT 602</td>
</tr>
<tr>
<td>CIT 602</td>
<td>Technology Applications Secondary Curriculum</td>
<td>3</td>
<td>Study of issues and applications of digital technologies in secondary schools. Students will explore appropriate uses of technology and gain hands-on experience in developing instructional activities using technology applications. Formerly CIT 702 Same as CIT 601</td>
</tr>
<tr>
<td>CIT 607</td>
<td>Technology and Computational Thinking</td>
<td>3</td>
<td>Examines current technologies as tools to support computational thinking practices such as abstraction, modeling, automation, and data analysis. Explores implications of technology supported computational thinking in a classroom setting. Formerly CIT 707 Grading: Letter grade</td>
</tr>
<tr>
<td>CIT 608</td>
<td>Integrating Technology in Teaching and Learning</td>
<td>3</td>
<td>Study of research-based practices and methods for integrating technology to promote thinking and learning. Students actively explore contemporary technologies and environments for the production and consumption of information. Formerly CIT 720 and CIT 620. Prerequisites: Coursework in educational technology or consent of instructor.</td>
</tr>
<tr>
<td>CIT 609</td>
<td>Internet for Learning</td>
<td>3</td>
<td>Examines the potential of the Internet to impact education and learning. Explores a wide range of online resources and how they can be integrated into instruction. Formerly CIT 709</td>
</tr>
<tr>
<td>CIT 611</td>
<td>Digital Publishing for Educators</td>
<td>3</td>
<td>Hands-on tutorials and design assignments for using page layout and graphics software to create well designed, effective publications for professional and instructional purposes. Topics include: design principles, layout techniques, graphics and type manipulation, importing media, and desktop publishing projects for the classroom. Formerly CIT 711 Prerequisites: Coursework in educational technology or consent of instructor.</td>
</tr>
<tr>
<td>CIT 622</td>
<td>Microcomputer Technology for Educators</td>
<td>3</td>
<td>In-depth look at how personal computers work. Microprocessors, printed circuit boards, bus structures, storage devices, and display options examined from the perspective of how they impact educational applications, purchasing decisions, and planning. Formerly CIT 722 Prerequisites: Coursework in educational technology or consent of instructor.</td>
</tr>
<tr>
<td>CIT 643</td>
<td>Designing Digital Materials for Education</td>
<td>3</td>
<td>Examines instructional design principles and applies them to the design of instructional software. Explores various theories of learning as they apply to courseware. Formerly CIT 743 Prerequisites: CIT 608 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 647</td>
<td>Creating Online Learning Environments</td>
<td>3</td>
<td>Educational Web site development using contemporary tools and contexts. Emphasis on web-based programming and user interface design. Formerly CIT 747 Prerequisites: CIT 609 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 648</td>
<td>Issues and Methods in Online Learning</td>
<td>3</td>
<td>Addresses the theory and practice for online teaching and learning. Participants explore a range of resources and extend skills in creating and implementing digital learning activities. Emphasis is on pedagogical issues and trends in virtual schooling and distance education. Formerly CIT 768, CIT 668 Prerequisites: CIT 609 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 649</td>
<td>Instructional Methods Computer Applications</td>
<td>3</td>
<td>Study of research-based practices and methods for teaching computer applications. Emphasis on developing project-based instructional activities for teaching digital technologies in the elementary/secondary classroom or professional development settings. Formerly CIT 749 Prerequisites: Coursework in educational technology or consent of instructor.</td>
</tr>
<tr>
<td>CIT 651</td>
<td>Instructional Methods Computer Science</td>
<td>3</td>
<td>Study of research-based practices and methods in the teaching of computer science topics including algorithmic processes and their principles, object orientation and programming, elements of software design and usability, data abstraction and logic structures, and interface design. Emphasis is on project-based learning (PBL) strategies in a web-based development environment. Formerly CIT 751 Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>CIT 653</td>
<td>Creating Digital Materials for Education</td>
<td>3</td>
<td>Focus on current application programming interfaces for developing digital educational materials. Formerly CIT 753 Prerequisites: CIT 643 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 667</td>
<td>Technology and Educational Change</td>
<td>3</td>
<td>Examines issues and trends pertaining to the implementation of technology-based innovations. Includes a review of research on past and current change efforts. Topics covered include professional development, assessment, strategies for technology coordinators, grant writing, and long-range planning for effective change. Formerly CIT 767 Prerequisites: CIT 608 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 669</td>
<td>Advanced Web Design and Development for Educators</td>
<td>3</td>
<td>Advanced educational web site development with emphasis on web-based programming and user interface design. Development environments such as JavaScript, Perl/CGI, and brief introduction to Java explored. Formerly CIT 769 Prerequisites: CIT 647 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 673</td>
<td>Digital Materials Studio</td>
<td>3</td>
<td>Project-based course emphasizing problem definition, instructional design, and product development. Students work individually and collaboratively on a set of relevant technical and pedagogical competencies. Formerly CIT 763 Prerequisites: CIT 643 or consent of instructor.</td>
</tr>
<tr>
<td>CIT 676</td>
<td>Management of Educational Technology Facilities and Resources</td>
<td>3</td>
<td>Advanced course focusing on problems and issues in procurement and management of educational computing applications, desktop workstations, computer laboratories, local and wide area networks, and support services. Consideration given to hardware and software interoperability; security for hardware, software and information; legal issues; health and safety factors; budgeting. Formerly CIT 766 Prerequisites: CIT 622</td>
</tr>
<tr>
<td>CIT 700</td>
<td>Advanced Topics in Educational Technology</td>
<td>1 - 6</td>
<td>Specialized course that explores current educational technology topics and issues.</td>
</tr>
</tbody>
</table>

210  Graduate Catalog • College of Education
CIT 770 - Foundations in Technology & Learning Credits 3
Emphasis is on critical review and analysis of computer-mediated communications, human-computer interaction, and human factors design research for learning contexts. Prerequisites: Doctoral status or consent of instructor.

CIT 772 - Technology in Teacher Education Credits 3
Examines issues and research on preparing teachers to enhance learning with technology. Topics include ISTE’s National Educational Technology Standards (NETS) for Students and Teachers, technology integration in methods courses and field experiences, electronic portfolio assessment, one-to-one laptop projects, and online learning in teacher preparation and professional development. Prerequisites: Doctoral status or consent of instructor.

CIT 773 - Interaction Design Credits 3
In-depth examination of how human-computer interaction design influences learning. Prerequisites: Doctoral standing and/or consent of instructor. Students must have the ability to access and use UNLV’s Web Campus learning management system.

CIT 774 - Behavioral Sciences & Technology Credits 3
Emphasis is placed on the critical review of theory-driven research in the general principles of behavioral and social processes in technological contexts. Prerequisites: Doctoral standing and/or consent of instructor. Students must have the ability to access and use UNLV’s Web Campus learning management system.

CIT 775 - Affect & Technology Credits 3
In-depth examination of research that addresses the relationship between affect and learning as facilitated by technology. Prerequisites: Doctoral standing and/or consent of instructor. Students must have the ability to access and use UNLV’s Web Campus learning management system.

CIT 776 - Emerging Technologies for Learning Credits 3
In depth examination of contemporary technologies for example, social media platforms, mobile technologies, games, and simulations. Prerequisites: Doctoral standing and/or consent of instructor. Students must have the ability to access and use UNLV’s Web Campus learning management system.

CIT 777 - Instructional Design Credits 3
Trends, issues, and research findings on effective instructional planning, presentation, and evaluation. Prerequisites: Doctoral status or consent of instructor.

CIT 780 - Educational Technology Research and Practice Credits 3
Examines the latest research regarding learning and educational technology. Research supported principles will be applied in the development of instructional materials. This course can be taken up to 3 times for a total of 9 credit hours. Prerequisites: CIT 770 or consent of instructor.

CIT 782 - Distance Education Issues and Trends Credits 3
Study of issues, and trends in Distance Education. Examines distance education history, research, practice, and program/course development. Prerequisites: Doctoral status or consent of instructor.

ESP 723 - Learning Strategies Instruction Credits 3
Theoretical and practical aspects of implementing a learning strategy curriculum within elementary and secondary school environments. Class participants analyze, synthesize, and modify instructional strategies to meet the needs of students with disabilities. Prerequisites: ESP 701

CIS 533 - Teaching Secondary English Credits 3
This course is designed for preservice teachers planning to teach high school English. Course topics include methods, materials, teaching techniques, and strategies unique to the English classroom, as well as curriculum design, lesson planning, assessment, and current issues in the teaching of English. Notes: This course is crosslisted with EDSC 433. Credit at the 500 level requires additional work. Grading: graded

CME 600 - Multicultural Education Credits 3
Introduces students to topics, issues, research, and practices associated with teaching in a diverse society. Formerly CIG 660 Prerequisites: Graduate standing.

CME 610 - Multicultural Education For Teacher License Recertification Credits 3
This course is designed as a specialized review of multicultural education for students who are in-service teachers pursuing State of Nevada teaching recertification. Formerly CIG 665 Prerequisites: Students seeking teacher license recertification.

CME 620 - Topics Multicultural Education Credits 3
Examines specific topics and issues in multicultural education. Formerly CIG 661 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Graduate standing.

CME 630 - Multicultural Curriculum Transformation Credits 3
Learn how to transform “mainstream,” “traditional,” or “Eurocentric” PK-12 and higher education curricula into critical multicultural educational curricula in discipline- and academic level specific manners, to improve teaching effectiveness, student learning outcomes, and the overall quality of teaching and learning. Formerly CIG 663

CME 640 - Theory and Research Multicultural Education Credits 3
Examines research related to current programs, trends and issues relative to student instruction for the purpose of preparing teachers, administrators, and other educators to work with diverse populations. Formerly CIG 662 Grading: Letter grade Prerequisites: Graduate standing.

CME 650 - Teaching about Latina/Latino Experiences in Education Credits 3
Examine the various sociopolitical, sociocultural, sociohistorical, and other factors that have shaped, and continue to shape, the PK-16 schooling experiences of Latina/Latino youth. Learn to use a community cultural wealth lens to develop critical understanding of the educational challenges that Latina/Latino students’ encounter in schools. Formerly CIG 667 Grading: Letter grade

CME 660 - Multicultural Organizational Development Credits 3
Blending core elements of multicultural education and organizational development, examine how various dimensions of social identity relative to institutional norms show up and/or play out in day-to-day operations in any given workplace. Learn to facilitate organizational change from exclusionary monoculturalism to critical multiculturalism. Formerly CIG 664 Grading: Letter grade

CME 661 - Multicultural Education Credits 3
This course is a specialized review of multicultural education for students who are in-service teachers pursuing State of Nevada teaching recertification. Formerly CIG 665 Prerequisites: Students seeking teacher license recertification.

CME 662 - Topics Multicultural Education Credits 3
Examines specific topics and issues in multicultural education. Formerly CIG 661 Notes: Maximum of six credits accepted toward a degree. Prerequisites: Graduate standing.

CME 670 - Social Justice Education Credits 3
In developing citizens committed to social justice educators must recognize how schools function within an untenable contradiction to respond to the needs of hierarchies associated with the capitalist labor force/marketplace, and create equality of access to rights and opportunities for the nation’s residents promised by an ostensibly democratic republic. Formerly CIG 774 Prerequisites: Graduate standing.

CME 710 - Introduction to Cultural Studies in Education Credits 3
Examines the political, theoretical, and historical roots of Cultural Studies as it applies to issues of power, culture and knowledge in the field of education. Popular culture, media studies, youth/child culture figure prominently. Formerly CIG 772 Notes: This is a compulsory core for those in the International and Cultural Studies emphasis area. Prerequisites: Graduate standing.

CME 720 - Comparative Studies in Learning, Teaching, and Curriculum Credits 3
Examines relationships between learning, curriculum, teaching, and teacher development within and across different countries and analyzes goals, theoretical assumptions, methodological dilemmas, and implications of such comparisons. Formerly CIG 771 Prerequisites: Graduate standing.
CME 730 - Intersectional Analysis in Multicultural Education
Credits 3
A systematic examination of the intersections of race, ethnicity, class, gender, sexuality and the other dimensions of difference; intellectual and axiomatic commitment to re-thinking and re-shaping concepts and theories that have treated these dimensions as discrete; a foregrounding of interests of those who are persistently unseen in education and beyond. Formerly CIG 745

CME 740 - Intergroup Dialogue Facilitation
Credits 3
Learn about what intergroup dialogue is, its basis in social identity, how to co-facilitate it, and how to go about building a for-credit intergroup dialogue program experience for undergraduate students that would fulfill their diversity core course requirement. Formerly CIG 778

CME 750 - Critical Multicultural Education
Credits 3
An exploration of critical or sociopolitically-located multicultural educational realities; realities in which institutional dynamics of power, juxtaposed with individual dynamics of power, are centered in the curriculum, especially as these realities manifest relative to public education. Formerly CIG 740 Grading: Letter grade

CME 760 - Critical Race Theory in Education
Credits 3
Critical race theory (CRT) is defined as a race-focused analytical framework for re-examining and challenging social inequalities. CRT applications to education are examined. Key CRT concepts, such as counterstory, interest convergence, critiques of liberalism, colorblindness, whiteness as property, and the permanence of racism, will be explored.

CME 770 - Critical Inquiry and Praxis
Credits 3
A critical exploration and application of emergent, collaborative, indigenous, advocacy, and other social justice-oriented approaches to inquiry. Undertake multi-perspectival analysis and implementation of various criticalizing processes embedded in each inquiry approach. Formerly CIG 793

CIGR 680 - Developing Social Emotional Competence in Teachers and Professional Leaders
Credits 3
Recognizing social and emotional factors that influence K-12 student learning, analyzing K-12 student needs and planning for classroom supports to meet those needs. Emphasis on K-12 students' contexts and how to successfully engage families. Grading: Letter grade

CIGR 681 - Curriculum Implementation and Innovation
Credits 3
Teacher leaders develop skills in critiquing, redesigning, and differentiating curricula. Learn to serve as teacher leaders for curriculum implementation, redesign, and differentiation in urban settings to meet the needs of K-12 urban school students. Grading: Letter grade

CIGR 687 - Coaching High-Leverage Field Practices
Credits 3
Mentorship planning that considers content and context in order to grow the skill level of colleagues. Intentional mentorship planning cycles result in a systemic change at the K-12 school level in culture and K-12 student performance when rooted in high-leverage instructional practices. Grading: Letter grade

CIGR 688 - Teaching and Learning Seminar
Credits 3
Examination of K-12 school data and implications for long-term school goals as well as obstacles that impede K-12 school reform. District initiatives and the effects on K-12 schools will also be addressed. Grading: Letter grade

Counselor Education, School Psychology, and Human Services

Chris Wood, Ph.D., Chair
Jared Lau, Ph.D., Graduate Coordinator
Sam Song, Ph.D., Graduate Coordinator

Program Information
Counselor Education, School Psychology, and Human Services
Faculty
Counselor Education, School Psychology, and Human Services
Courses
Department Website
Plans
Advanced Graduate Certificate in Addiction Studies
Advanced Graduate Certificate in Mental Health Counseling
Master of Science - Clinical Mental Health Counseling
Master of Education - School Counseling
Education Specialist - School Psychology

Advanced Graduate Certificate in Addiction Studies
Plan Description
The Department of Early Childhood, Multilingual, and Special Education offers an Advanced Graduate Certificate in Addiction Studies. The certificate program is designed for individuals already holding master's degrees in counseling who are seeking to enhance their professional counseling practice and licensure options. The Advanced Graduate Certificate in Addictions Studies meets the needs of health professionals such as marriage and family therapists, community counselors, rehabilitation counselors, school counselors, physicians, psychologists, social workers, and behavioral health therapists by providing graduate addiction training to help them address client needs.

Faculty members in the Department of Early Childhood, Multilingual, and Special Education endeavor to promote excellence in counselor education and counseling research. Our graduate counseling programs prepare students to:

1. Serve as professional counselors, advocates, and leaders who maximize opportunities for individuals, groups, and communities with a particular emphasis on helping underserved and oppressed client populations;
2. Address developmental, academic, career, mental health, socio-cultural, and wellness needs of clients seeking counseling;
3. Help individuals, groups and communities strive to find meaning, involvement, worth, and dignity in their lives;
4. Engage in action research and program evaluations to further the knowledge base and best practice initiatives of the counseling profession; and
5. Advocate with local, state, and national organizations to promote client and societal wellbeing.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

Students must already be holding a master's degree in counseling, or be currently admitted to the Clinical and Mental Health Counseling M.S. program at UNLV.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Con-Current Master’s Track

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 9
Complete 9 credits of advisor-approved coursework.

Final Project – Credits: 3
• CED 787 - Individual Research

Certificate Requirements

1. Completion of a minimum of 24 credit hours with a minimum GPA of 3.00.
2. Students who receive an F or more than two C grades will be separated from the program.
3. A minimum of six semester hours of credit must be taken each semester, including summer.

Certificate Completion Requirements

See Plan Certificate Completion Requirements below.

Subplan 2 Requirements: Post-Master’s Track

Total Credits Required: 24

Course Requirements

Required Courses – Credits: 21

Complete 21 credits of advisor-approved coursework.

Final Project – Credits: 3
• CED 787 - Individual Research

Certificate Requirements

1. Completion of a minimum of 24 credit hours with a minimum GPA of 3.00.
2. Students who receive an F or more than two C grades will be separated from the program.
3. A minimum of six semester hours of credit must be taken each semester, including summer.

Certificate Completion Requirements

See Plan Certificate Completion Requirements below.

Advanced Graduate Certificate in Mental Health Counseling

Plan Description

The Department of Counselor Education, School Psychology, and Human Services offers an Advanced Graduate Certificate in Community Mental Health Counseling. The certificate program is designed for individuals already holding master's degrees in counseling who are seeking to enhance their professional counseling practice and licensure options.

The Advanced Graduate Certificate in Mental Health Counseling is targeted primarily toward those individuals who have graduated from CACREP accredited or equivalent programs, but do not meet the necessary educational requirements for the LPC in the State of Nevada.

Faculty members in the Department of Early Childhood, Multilingual, and Special Education endeavor to promote excellence in counselor education and counseling research. Our graduate counseling programs prepare students to:

1. Serve as professional counselors, advocates, and leaders who maximize opportunities for individuals, groups, and communities with a particular emphasis on helping underserved and oppressed client populations;
2. Address developmental, academic, career, mental health, socio-cultural, and wellness needs of clients seeking counseling;
3. Help individuals, groups and communities strive to find meaning, involvement, worth, and dignity in their lives;
4. Engage in action research and program evaluations to further the knowledge base and best practice initiatives of the counseling profession; and
5. Advocate with local, state, and national organizations to promote client and societal wellbeing.

The certificate consists of 12-24 credits, based on the student’s master’s degree training.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

The Advanced Graduate Certificate in Mental Health Counseling is an extension of the M.S. degree and is geared for those individuals who have graduated from CACREP accredited or equivalent programs, but do not meet the necessary educational requirements for the Nevada licensure for Clinical Professional Counselors (LCPC).

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

See Subplan Requirements below.

**Subplan 1 Requirements: Post CACREP Community Counseling Master’s Track**

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12

Complete 12 credits of advisor-approved coursework.

Certificate Requirements

1. Completion of a minimum of 12 credit hours with a minimum GPA of 3.00.
2. Students who receive an F or more than two C grades will be separated from the program.
3. A minimum of six semester hours of credit must be taken each semester, including summer.

Certificate Completion Requirements

See Plan Certificate Completion Requirements below.

**Subplan 3 Requirements: Non-CACREP Community Counseling Master’s Track**

Total Credits Required: 24

Course Requirements

Required Courses – Credits: 24

Complete 24 credits of advisor-approved coursework.

Certificate Requirements

1. Completion of a minimum of 24 credit hours with a minimum GPA of 3.00.
2. Students who receive an F or more than two C grades will be separated from the program.
3. A minimum of six semester hours of credit must be taken each semester, including summer.

Certificate Completion Requirements

See Plan Certificate Completion Requirements below.

**Subplan 4 Requirements: Post Counseling Related Master’s Track**

Total Credits Required: 24

Course Requirements

Required Courses – Credits: 24

Complete 24 credits of advisor-approved coursework.

Certificate Requirements

1. Completion of a minimum of 24 credit hours with a minimum GPA of 3.00.
2. Students who receive an F or more than two C grades will be separated from the program.
3. A minimum of six semester hours of credit must be taken each semester, including summer.

Certificate Completion Requirements

See Plan Certificate Completion Requirements below.

**Plan Certificate Completion Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Education Specialist - School Psychology

This program is accredited by: NASP. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

School Psychology Ed.S. program is based upon standards set forth by Nevada state and national accreditation organizations and is a nationally approved program by the National Association of School Psychologist (NASP). Students pursuing school psychology studies meet credential standards by completing at least 66 semester hours beyond the bachelor's degree of required and elective graduate-level course work including a 1,200 hours of supervised internship. Completion of this program of graduate study enables the student to receive state licensure as a school psychologist in Nevada and the opportunity to gain national certification as a Nationally Certified School Psychologist (NCSP).

The program adopts a Cultural Ecological framework of school psychology and the scientist/practitioner model of training. Courses and practica seek to integrate theory and applied skills for working in schools and other educational settings. The primary goal of the school psychology program is to prepare professional school psychologists who can apply psychological principles to (a) promote healthy development in school and (b) ameliorate various cognitive, academic and psychosocial challenges for all children, families, schools, and communities in an increasingly diverse and global society.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students are admitted each spring to begin the following fall. Applicants must have a 2.75 undergraduate GPA with the last two years GPA of 3.0. The GRE must also be taken, with preference given to applicants who score at or above the 50% percentile on both the verbal and quantitative scores on the GRE. The admission process begins with applications submitted to the Graduate College and to the program

Admission is based on the following criteria:

1. Graduate College online application
2. Department application
3. Preference is given to students whose scores relate to the 50th percentile or better on the verbal and quantitative sections of the Graduate Record Examination (GRE)
4. Three letters of recommendation from former instructors, employers, or other professionals who can evaluate the potential to complete graduate study
5. One-page career goals statement which also serves as a sample of the applicant's writing skills

6. Transcripts from all colleges and universities attended

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 66

Course Requirements

Psychology/Educational Foundations Courses – Credits: 12

- EPY 711 - Human Growth and Development
- EPY 712 - Foundations of Learning and Cognition
- ESP 701 - Introduction to Special Education and Legal Issues
- EPP 760 - Cultural Ecological Model in School Psychology

Psychology/Educational Foundations Elective Course – Credits: 3

An elective may be taken in research (EPY) and is highly recommended for those students who want to earn their M.S. in Educational Psychology and/or for those students seeking doctoral studies in the future. Elective may also be taken in EPP, CED, ESP, or other course approved by the academic advisor.

Assessment & Intervention Courses – Credits: 26

- EPP 735 - Evidence Based Interventions to Promote Mental Health
- EPP 710 - Assessment of Intelligence by School Psychologists
- EPY 786 - Applied Assessment in Educational and School Psychology
- EPP 715 - Projective, Personality, and Behavioral Assessment by School Psychologists
- CED 727 - Counseling Process and Procedures
- EPP 730 - Consultation Theory & Skills
- EPP 763 - Psychoeducational Academic and Diagnostic Assessment
- ESP 733 - Management and Modification of Students with Special Needs
- EPP 770 - Systems Change, Leadership, & Advocacy in Schools

Research Course – Credits: 3

- EPY 702 - Research Methods
Professional School Psychology Courses – Credits: 10
- EPP 761 - Role & Function of the School Psychologist in a Global Society
- EPP 764 - School Psychology Seminar
- EPP 745 - Legal Clinic on Law, Ethics, & Advocacy

School Psychology Course – Credits: 6
- EPP 762 - School Psychology Intervention with Practicum

Internship Course – Credits: 6
- EPP 769 - Internship in School Psychology

Degree Requirements
1. The student must complete a minimum of 66 credit hours with a minimum GPA of 3.00.

2. Course substitutions may be allowed with advisor and/or program faculty approval. * An elective may be taken in research (EPY) and is highly recommended for those students who want to earn their M.S. in Educational Psychology (see below) and/or for those students seeking doctoral studies in the future. Elective may also be taken in EPP, CED, ESP, or other course approved by the academic advisor.

3. Following the first year of the required prescribed Ed.S. program courses (minimum of 34 credits) and successful completion of EPY 721 Descriptive and Inferential Statistics and the comprehensive examination, students are eligible to receive an M.S. degree in Educational Psychology.

4. The culminating experience for the School Psychology Ed.S. is the completion of a two-semester (minimum of 1200 clock hours) internship in a school setting. This is typically a full-time assignment, completed at the end of the program. During this time students will also enroll in EPP 769 and complete a portfolio with results of a national exam and examples of work product. The portfolio will serve as the final examination for the Ed.S. degree.

5. Students will typically have completed all other coursework prior to being approved for internship. Students must have successfully completed the primary assessment courses (EPP 710, EPP 715, EPP 763) and the practica to be eligible for internship placement.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees (where applicable) up to two semesters prior to completing his/her degree requirements.

Master of Education - School Counseling

Plan Description
The Department of Counselor Education, School Psychology & Human Services offers a 48 credit Master of Education (M.Ed.) in School Counseling. Graduates of the M.Ed. programs are eligible to sit for the National Counselor Examination in order to qualify for the National Certified Counselor (NCC) credential.

The Master of Education – School Counseling degree at UNLV requires a minimum of 48 graduate semester credits and prepares educational professionals who work to meet the academic, career, personal, and social needs of culturally and linguistically diverse K-12 student populations. The program prepares school counselors to fulfill the following roles:

1. Serve as advocates, educational leaders, team members, consultants, and counselors to maximize opportunities for students to succeed academically;

2. Address the academic, career, and personal/social needs of all students in the school;

3. Serve as leaders of equity and achievement and be able to address institutional and environmental barriers impeding student progress;

4. Through the collection and dissemination of data, advocate for systemic change to promote student achievement and academic success; and

5. Become managers of resources and partnership builders, enlisting the support of parents, agencies, and community members.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

The master degree program requires that an application for admission be submitted to the Graduate College and the Department of Department of Counselor Education, School Psychology & Human Services as well as transcripts of all college-level work. A minimum grade point average of 2.75 for all undergraduate work and a 3.00 for the last two years of undergraduate work is required.

Applicants must provide three letters of recommendation directly to the department along with a departmental application form that includes a writing sample. Final applicants undergo an extensive/structured personal interview. Students should refer to the department website. Students are admitted once each year, with an application deadline of February 1st.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 48

**Course Requirements**

**Required Courses – Credits: 48**

- CED 701 - Introduction to Counseling
- CED 703 - Counseling with Expressive Arts and Activities
- CED 711 - Counseling Appraisal and Inquiry
- CED 713 - Introduction to School Counseling
- CED 715 - Counseling and Consultation Theories
- CED 721 - Career Theories and Practices
- CED 727 - Counseling Process and Procedures
- CED 731 - Social Justice and Advocacy in Counseling
- CED 733 - Introduction to Group Counseling
- CED 735 - Addictions Counseling
- CED 741 - Practicum
- CED 743 - Ethical and Legal Issues in Counseling
- CED 750 - Advanced Seminars in School Counseling
- CED 751 - Internship in Counseling I
- CED 752 - Internship in Counseling II
- CED 753 - Internship in Counseling III
- EPY 702 - Research Methods
- EPY 711 - Human Growth and Development

**Degree Requirements**

1. All full and part-time students entering into the M.Ed. program are required to enroll in the following courses during their first fall semester: CED 701 - Introduction to Counseling and CED 727 - Counseling Process and Procedures.

2. A grade of B or better is required in both CED 701 and CED 727 in order to continue taking coursework in the M.Ed. program. Students who make a grade of B- or lower (but not an F) in either CED 701 or CED 727 will be placed on probation and may not continue taking other coursework in the M.Ed. program until successfully repeating these courses. If after a second attempt a student does not make a B or better, the student will be officially separated from the graduate program.

3. Students must make a grade of B or better in CED 741 in order to enroll in CED 751. A grade of B or better is required for all internship courses (CED 751 and CED 775) or they must be repeated.

4. A student receiving a grade of F in any required course in the degree program will be officially separated from the graduate program. Students must repeat any course in which they make a grade of C- or lower. Students making three or more grades of B- or lower will be officially separated from the graduate program. In order to earn the degree, students must have a cumulative GPA of 3.0 or better.

5. Students must successfully complete and pass the final comprehensive exam.

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

2. The student must successfully complete and pass the final comprehensive exam.

**Master of Science - Clinical Mental Health Counseling**

**Plan Description**

The Department of Counselor Education, School Psychology & Human Services offers a 60 credit Master of Science (M.S.) – Clinical Mental Health Counseling. Graduates of the M.S. program are eligible to sit for the National Counselor Examination in order to qualify for the National Certified Counselor (NCC) credential.

The Clinical Mental Health Counseling program, a 60-credit hour course of study, is designed to train professional counselors for work in a variety of community and mental health settings. Community mental health counselors work in local, state, and federal agencies, as well as private for-profit and non-profit agencies.

The Clinical Mental Health Counseling M.S. degree offers a unique arena for the development of counseling theory and in-depth research in issues impacting community and mental health, as well as continuing the development of professional counselors to meet the diverse needs of Southern Nevada, the region, and the nation.

Faculty members in the Department of Counselor Education endeavor to promote excellence in counselor education and counseling research. Our graduate counseling programs prepare students to:

1. Serve as professional counselors, advocates, and leaders who maximize opportunities for individuals, groups, and communities with a particular emphasis on helping underserved and oppressed client populations;

2. Address developmental, academic, career, mental health, socio-cultural, and wellness needs of clients seeking counseling;

3. Help individuals, groups and communities strive to find meaning, involvement, worth, and dignity in their lives;
4. Engage in action research and program evaluations to further the knowledge base and best practice initiatives of the counseling profession; and

5. Advocate with local, state, and national organizations to promote client and societal wellbeing.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The master degree program requires that an application for admission be submitted to the Graduate College and the Department of Department of Counselor Education, School Psychology & Human Services as well as transcripts of all college-level work. A minimum grade point average of 2.75 for all undergraduate work and a 3.00 for the last two years of undergraduate work is required.

Applicants must provide three letters of recommendation directly to the department along with a departmental application form that includes a writing sample. Final applicants undergo an extensive/structured personal interview. Students should refer to the department website. Students are admitted once each year, with an application deadline of February 1st.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 60

- CED 701 - Introduction to Counseling
- CED 703 - Counseling with Expressive Arts and Activities
- CED 710 - Relationships Through the Lifespan
- CED 711 - Counseling Appraisal and Inquiry
- CED 715 - Counseling and Consultation Theories
- CED 721 - Career Theories and Practices
- CED 727 - Counseling Process and Procedures
- CED 731 - Social Justice and Advocacy in Counseling
- CED 732 - Advanced Multicultural Counseling
- CED 733 - Introduction to Group Counseling
- CED 735 - Addictions Counseling
- CED 738 - Introduction to Clinical Mental Health Counseling
- CED 741 - Practicum
- CED 743 - Ethical and Legal Issues in Counseling
- CED 751 - Internship in Counseling I
- CED 752 - Internship in Counseling II
- CED 753 - Internship in Counseling III
- CED 766 - Psychopathology and Wellness Models in Counseling
- CED 772 - Counseling and Spirituality
- CED 775 - Advanced Internship in Counseling
- EPY 702 - Research Methods
- EPY 711 - Human Growth and Development

Degree Requirements

1. All full and part-time students entering into the M.S. program are required to enroll in the following courses during their first fall semester: CED 701 - Introduction to Counseling and CED 727 - Counseling Process and Procedures.

2. A grade of B or better is required in both CED 701 and CED 727 in order to continue taking coursework in the M.S. program. Students who make a grade of B- or lower (but not an F) in either CED 701 or CED 727 will be placed on probation and may not continue taking other coursework in the M.S. program until successfully repeating these courses. If after a second attempt a student does not make a B or better, the student will be officially separated from the graduate program.

3. Students must make a grade of B or better in CED 741 in order to enroll in CED 751. A grade of B or better is required for all internship courses (CED 751 and CED 775) or they must be repeated.

4. A student receiving a grade of F in any required course in the degree program will be officially separated from the graduate program. Students must repeat any course in which they make a grade of C- or lower. Students making three or more grades of B- or lower will be officially separated from the graduate program. In order to earn the degree, students must have a cumulative GPA of 3.0 or better.

5. Students must successfully complete and pass the final comprehensive exam.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

2. The student must successfully complete and pass the final comprehensive exam.
CED 608 - Counseling the Older Adult Credits 3
Overview of issues that may be encountered while counseling the older adult. Reviews information on the nature, diagnosis and treatment of common mental health problems of later life. Introduces students to services and support systems that are available to older adults and their families that will assist in the referral process. Notes: This course is crosslisted with CED 408. Credit at the 600-level requires additional work.

CED 620 - Identification, Assessment, and Treatment of The Process Addictions Credits 3
This course is designed to develop the knowledge and skills to identify, assess, and treat various process and co-occurring disorders. Emphasis will be placed on creating an understanding of the history, philosophy, and trends of addiction counseling. In addition, knowledge of the current literature that outlines theories, approaches, effective strategies, and techniques when working with these addictions will be explored. Teaching method is lecture, presentations, role plays, videos and discussion. Grading: Letter grade

CED 639 - Problem Gambling Counseling I Credits 3
Orients students to the history, etiology and prevalence of compulsive gambling. Provides students with the knowledge of assessment tools and counseling skills. Characteristics of compulsive gambling behavior, stages of progression, distinctions and connections to other addictions, effects on families, finances and legal issues. Notes: This course is crosslisted with CED 439. Credit at the 600-level requires additional work.

CED 640 - Problem Gambling Counseling II Credits 3
Provides students with a thorough understanding of client-oriented counseling modalities and strategies. Provides skills to utilize and interpret assessment tools and provide treatment planning. Practical applications and clinical skills. Notes: This course is crosslisted with CED 440. Credit at the 600 level requires additional work. Prerequisites: CED 639

CED 645 - Trauma and Addiction Credits 3
Designed to provide a working knowledge of the various ways that substance abuse and personal trauma impact each other. Emphasis on identifying signs and symptoms. Diagnostic criteria for various trauma categories and counseling approaches explored. Notes: This course is crosslisted with CED 445. Credit at the 600-level requires additional work.

CED 646 - Combat Trauma Credits 3
Overview of the trauma that is experienced by individuals involved in armed combat situations. The signs and symptoms of such involvement will be explored. In addition, the impact on families and communities will be addressed. Notes: This course is crosslisted with CED 446. Credit at the 600-level requires additional work.

CED 700 - Special Problems: Counseling and Educational Psychology Credits 1 – 6
Specialized instruction in general professional education designed to develop depth in understanding of current counseling and educational psychology problems. Notes: May be repeated to a maximum of six credits.

CED 701 - Introduction to Counseling Credits 3
Introductory course designed to provide students with understanding of the basic roles and functions of the counselors in the human services. Examination of historical roots, philosophy, current trends, and best practices in professional counseling.

CED 703 - Counseling with Expressive Arts and Activities Credits 3
Examination of expressive arts and activity methods for counseling with children, adolescents, and adults. Topics include play therapy, sandtray, dreamwork, and other experiential counseling interventions.

CED 710 - Relationships Through the Lifespan Credits 3
Students will learn the basic knowledge of relationship issues across the lifespan and how it relates to the counseling professional. Prerequisites: Consent of instructor.

CED 711 - Counseling Appraisal and Inquiry Credits 3
Theoretical and practical approach to assessing the individual. Includes development of a framework for understanding individual and group testing; case study approaches; adapting and using questionnaires, surveys, and other assessments to meet local needs; and individual differences including ethnic and cultural and gender considerations. Prerequisites: CED 701

CED 713 - Introduction to School Counseling Credits 3
Study of the roles and functions of the school counselor at the elementary, middle, and high school levels as well as history and current trends in the profession. Prerequisites: Graduate standing.

CED 715 - Counseling and Consultation Theories Credits 3
Examination of major counseling theories and consultation techniques for application in individual and group settings. Prerequisites: Admission to the department.

CED 721 - Career Theories and Practices Credits 3
Survey of current theories and practices in career counseling. Emphasis on values and decision-making process. Meets program requirements for school, community, and rehabilitation counseling. Prerequisites: CED 701

CED 722 - Introduction to Child Counseling & Play Therapy Credits 3
This course is designed as an examination of play therapy theories and interventions usable by professional counselors, social workers, marriage and family therapists, psychologists, nurses, mental health and related professionals who work with children.

CED 727 - Counseling Process and Procedures Credits 3
Students learn the necessary skills to establish counseling relationships, identify relevant counseling issues, and translate their understanding into an action plan for promoting lasting change. Stages of the counseling process identified, practiced, and applied. Prerequisites: CED 701

CED 731 - Social Justice and Advocacy in Counseling Credits 3
Seminar course designed to foster awareness, knowledge, and skills for counseling with diverse clients. Emphasizes social justice and advocacy in counseling with minority and oppressed students. Topics include culture, ethnicity, nationality, age, gender, sexual orientation, mental and physical abilities, education, family dynamics, and socioeconomic status.

CED 732 - Advanced Multicultural Counseling Credits 3
This course is designed to help students develop awareness, knowledge, skills for more effective work with culturally diverse groups and individuals. Substantial attention will be given to intrapersonal issues, concerns related to different cultures & programming in a variety of settings.

CED 733 - Introduction to Group Counseling Credits 3
Study and practice of basic approaches to group procedures in relation to group goals, group dynamics and group leadership. Prerequisites: CED 701 and EPY 723

CED 735 - Addictions Counseling Credits 3
Overview of physiological and interpersonal impacts of substance abuse. Emphasis on empirically validated prevention programs, substance abuse assessment, counseling techniques, referral information, aftercare, and relapse prevention strategies. Grading: Letter grade Prerequisites: CED 701

CED 738 - Introduction to Clinical Mental Health Counseling Credits 3
Introduction to community and rehabilitation counseling including historical, philosophical legislative and organizational bases; rehabilitation process, and services in public and private community settings. Emphasis on role and function of the counselor. Grading: Letter grade

CED 741 - Practicum Credits 3
Supervised counseling practice in human service settings including work with individuals and groups. Emphasis on utilizing a variety of counseling skills and methods with diverse client populations. Prerequisites: CED 701, CED 727, CED 733 and EPY 723
CED 743 - Ethical and Legal Issues in Counseling  
Credits 3
Overview of ethical, legal, and professional issues in counseling. Emphasis on best practices and ethical decision making models. Prerequisites: CED 701

CED 745 - Assessment, Treatment, and Case Management in Addictions  
Credits 3
Provides theoretical framework for assessing and treating individuals with addictive disorders and the practical application of managing a client's case from initial treatment stages through discharge and aftercare. Formerly: COU 741 Prerequisites: CFT 731

CED 749 - Thesis  
Credits 3
Culminating masters level research project. Notes: May be repeated, but only six credits will apply to students program of study. Prerequisites: Consent of instructor.

CED 750 - Advanced Seminars in School Counseling  
Credits 1 – 3
Advanced studies in professional school counseling practice, theory, and research. Topics may include innovative practices, supervision, evaluation, techniques, and theory of school counseling. Notes: May be repeated to a maximum of twelve credits.

CED 751 - Internship in Counseling I  
Credits 1 - 3
Advanced supervised counseling practice in human service settings. Provides the opportunity to engage in all of the activities of a regularly employed staff member in an organization with program emphasis area. Notes: May be repeated to a maximum of six credits. Prerequisites: CED 741

CED 752 - Internship in Counseling II  
Credits 1
Advanced supervised counseling practice in human service settings. Provides the opportunity to engage in all of the activities of a regularly employed staff member in an organization compatible with program emphasis area. Prerequisites: CED 741

CED 753 - Internship in Counseling III  
Credits 1
Advanced supervised counseling practice in human service settings. Provides the opportunity to engage in all of the activities of a regularly employed staff member in an organization compatible with program emphasis area. Prerequisites: CED 741

CED 755 - Planning, Management, and Evaluation of Addictions and Mental Health Programs  
Credits 3
Develops skills in applying basic management, planning, and evaluation techniques to addictions and mental health programs. Areas stressed include the relationships between program evaluation, program planning, program effectiveness, and organizational performance. Formerly: COU 751 Prerequisites: CED 745 or consent of instructor.

CED 758 - Independent Study  
Credits 3
Independent study of a selected topic in professional counseling under the direction/supervision of a graduate faculty member. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Consent of instructor.

CED 766 - Psychopathology and Wellness Models in Counseling  
Credits 3
Overview of psychopathology as classified in the DSM, with an emphasis on diagnosis, supportive psychopharmacology, and counseling interventions. Also overviews wellness models in counseling and highlights ways counselors can promote optimal development and wellbeing with diverse client populations. Prerequisites: CED 741, CED 753

CED 772 - Counseling and Spirituality  
Credits 3
Application and integration of sound counseling skills into a spiritually-based counseling approach. Contemporary counseling theories and their assumptions about human nature and the role of spirituality in counseling. Prerequisites: Consent of instructor.

CED 775 - Advanced Internship in Counseling  
Credits 3
Supervised counseling practice in a professional setting with an emphasis on developing advanced level counseling skills. Notes: Students will complete a minimum of 300 hours, with 150 of the hours being direct contact hours. Course may be repeated to a maximum of twelve credits. Prerequisites: CED 751

CED 787 - Individual Research  
Credits 1 – 6
Individual research on a selected topic in professional counseling under the direction/supervision of a graduate faculty member. Prerequisites: Consent of instructor.

EPP 771 - School Psychology Research  
Credits 1
School psychology research. Apprenticing on research projects with school psychology research faculty. Notes: May be repeated up to six credits. Grading: Letter grade Prerequisites: Admission into the Ed.S. School Psychology or Ph.D. School Psychology programs

EPP 772 - Doctoral Seminar in Psychological Science  
Credits 3
Advanced foundational domains of psychological science and their integration. Topic foci will vary by term. Grading: Letter grade Prerequisites: Admission into the Ed.S. School Psychology or Ph.D. School Psychology programs and permission of instructor.

EPP 774 - Evidence-Based Child & Youth Psychotherapy  
Credits 3
Understand the role of school psychologists in evidence-based interventions and practices that promote mental health for use in schools, primarily at tier 3 within multi-tiered systems of support (i.e., psychotherapy). Grading: Letter grade Prerequisites: Admission into the Ed.S. School Psychology or Ph.D. School Psychology programs and EPP 735

EPP 775 - Crisis Prevention and Intervention in Schools  
Credits 3
Understand the role of school psychologists in providing evidence-based crisis prevention and intervention in schools within a multi-tiered systems of support; gain skills in delivering these interventions with individual students; and apply the cultural ecological framework to the conceptualization of students’ difficulties. Grading: Letter grade Prerequisites: Admission into the Ed.S. School Psychology or Ph.D. School Psychology programs and EPP 735 or consent of instructor.

EPP 776 - School Psychology Research Development  
Credits 3
Design and write individual dissertation proposal in school psychology. Professional issues related to applied research in school psychology and its reciprocal influence on practice is emphasized (i.e., scientist-practitioner model). Grading: S/U grading only. Prerequisites: Admission into the Ph.D. School Psychology program and EPP 772 or permission of instructor.

EPP 777 - Family-School Partnerships in School Psychology  
Credits 3
Building family-school-community relationships, outreach to families, developing an appreciation and understanding of families from diverse backgrounds, child development, and how such factors influence school psychology roles, functions, and practice according to goals for effective parental involvement and family engagement. Grading: Letter grade

EPP 784 - Supervision and Teaching Practicum  
Credits 3
Individual study under the direction of a faculty member focusing on supervision of school psychology practice and preparing to teach at the college level. Grading: Letter grade Prerequisites: Permission of instructor

EPP 786 - School Psychology First Year Practicum  
Credits 1
Field-based experience. Shadow a practicing school psychologist. Notes: May be repeated to a maximum of two credits. Grading: Letter grade

EPP 793 - Advanced Doctoral Practicum  
Credits 3
Advanced practice supervised experience for doctoral students in school psychology. Grading: Letter grade
Howard R. Hughes College of Engineering

At the Howard R. Hughes College of Engineering, we strive by our mission: Educate, Engage, Inspire, Innovate.

We are dedicated to:

• Creating hands-on experiential learning for all our students,
• Fostering an environment of innovation that allows the pursuit of high-impact research,
• Engaging the community and collaborating with partners to reach creative solutions for societal problems, and
• Inspiring the next generation of technology entrepreneurs.

As a graduate student in our college, you will join a thriving community of scholars who pursue cutting-edge research in many fields. Our students have access to first-class research facilities as well as world-renowned faculty members who have won national and international recognition in their research areas. Our students and faculty explore many areas, including nanomaterials and devices, unmanned aerial systems and robotics, big data, cybersecurity, air and water quality resources, transportation, renewable energy, sensors and systems for space, and national security applications.

We also offer our students premier graduate programs in a variety of disciplines, including aerospace, biomedical, civil, environmental, electrical, materials, mechanical, nuclear, and transportation engineering as well as construction management and computer science.

Our graduates work locally, nationally, and internationally in some of the top laboratories, research centers, universities, and corporations across the world.

As the boundaries of science and engineering continue to expand, UNLV’s Howard R. Hughes College of Engineering is committed to offering our students a variety of competitive graduate programs and certificates. We are confident you will find our graduate programs both challenging and rewarding.

Rama Venkat, Ph.D., Dean, Howard R. Hughes College of Engineering
Mohamed Trabia, Ph.D., Associate Dean for Research, Howard R. Hughes College of Engineering

Civil and Environmental Engineering and Construction
Computer Science
Electrical and Computer Engineering
Mechanical Engineering

Plans
Graduate Certificate in Solar & Renewable Energy

College Information

Graduate Certificate in Solar & Renewable Energy

Plan Description

The Howard R. Hughes College of Engineering offers a Graduate Certificate in Solar and Renewable (SRE) Energy. The Certificate is designed for individuals already in possession of either a baccalaureate degree or a graduate degree. More specifically, the Certificate provides a specialized qualification for career professionals in the energy industry, professionals from other fields and individuals with baccalaureate degrees seeking entry into the renewable energy field, or currently enrolled graduate students seeking an additional specialization. This Certificate is designed to:

Provide an interdisciplinary approach to SRE grounded in the three critical pillars of policy and governance, technology and physical science, and the built environment.
Develop within students the intellectual and problem-solving foundation for a successful professional career in the SRE field.
Improve the overall effectiveness of the solar and renewable energy sector in Nevada and the Western U.S.

Students earning the Certificate may apply for admission into UNLV graduate degree programs as long as they meet the existing admissions criteria for said programs.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants must have earned an undergraduate degree from a regionally accredited college or university with an overall undergraduate GPA of 2.75 or higher.

Applicants must be accepted by the Graduate College and the Advisory/Admissions Committee for the SRE Certificate program.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 18

Course Requirements

Required Course – Credits: 3

• ME 677 - Solar and Renewable Energy Utilization
Environmental Decision Making Course – Credits: 3
Complete one of the following courses:
- ENV 702 - Environmental Problem Solving
- ENV 720 - Natural Resource Valuation
- PAF 703 - Institutions and Policy Decisions

Built Environment Course – Credits: 3
Complete one of the following courses:
- CEM 680 - Sustainable Construction
- ABS 632 - Solar Energy Applications in Architecture

Energy Policy Course – Credits: 3
Complete three credits from the following list of courses:
- ENV 611 - Environmental Risk Management
- ENV 702 - Environmental Problem Solving
- ENV 703 - Environmental Law and Policy Seminar
- ENV 711 - Risk Assessment and Risk Management
- ENV 720 - Natural Resource Valuation
- ENV 750 - Environmental Studies and Public Policy
- LAW 651 - Environmental Quality Law
- ECO 707 - Environmental and Natural Resource Economics
- PAF 701 - Origins and Development of Public Policy in America
- PAF 702 - Role of Government in Society
- PUA 725 - Policy Analysis and Program Evaluation
- PUA 745 - Administration in a Federal and Intergovernmental Perspective
- PUA 756 - Policy Implementation

Engineering & Science Course – Credits: 3
Complete three credits from the following list of courses:
- CEM 680 - Sustainable Construction
- CEM 755 - Renewable Energy Capital Facility Projects
- ABS 531 - Environmental Control Systems I
- ABS 532 - Environmental Control Systems II
- ABS 632 - Solar Energy Applications in Architecture
- GEOL 610 - Soil Classification and Resource Management
- GEOL 630 - Geographic Information Systems (GIS): Theory and Applications
- GEOL 646 - Geologic Applications in Remote Sensing
- ENV 660 - Environmental Modeling
- ENV 680 - Geographic Information Systems for Environmental & Socioeconomic Analysis
- ECG 646 - Photovoltaic Devices and Systems
- ECG 642 - Power Electronics
- ECG 653 - Introduction to Nanotechnology
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ME 619 - Advanced HVAC and Energy Conservation Systems
- ME 705 - Conduction Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 711 - Advanced Thermodynamics
- ME 714 - Computational Aspects of Solar Energy
- ME 746 - Experimental Design and Analysis of Digital Process Control Systems

Elective Course – Credits: 3
Complete three credits from the Energy Policy or Engineering & Science courses listed above.

Certificate Requirements
Completion of a minimum 18 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Civil and Environmental Engineering and Construction

Well-equipped facilities developed by the department faculty include a computer assisted design laboratory, an engineering geophysics laboratory and test site, an environmental engineering laboratory, a soil and rock mechanics laboratory, the Nevada University Transportation Center, and a water resources laboratory. These facilities provide state-of-the-art research tools. Among these are a MTS dynamic testing machine, a triaxial testing apparatus, a large-scale structural load frame, a 50-foot tilting flume, concrete testing facilities, a portable wind tunnel, a broad geophysical test equipment base anchored by a 7,000-lb (3 metric ton) programmable seismic source with 144-channel recording system, PCs, workstations, and current software programs are available within these facilities, with additional facilities being available in the college. Additional assets include access to high speed multiprocessor computers housed in the National Supercomputing Center for Energy and the Environment. Facilities are located in the Thomas T. Beam Engineering Complex. Additional research facilities nearby include one of twelve national EPA laboratories (located on campus) and the Department of Energy’s Nevada Test Site, which has been designated an Environmental Research Park.

Students with backgrounds in civil engineering as well as related disciplines are invited to apply. Students with science backgrounds desiring admission to the graduate program will be required to complete coursework, prerequisite or otherwise, that will assure successful completion of the graduate program. Specific coursework requirements will depend on the area of specialization desired by the applicant.

Civil engineering applicants must identify a specialization from one of the following areas: construction, geotechnical, structural, transportation or water resources/environmental. Applications for admission to the program are evaluated by faculty members representing each of the respective areas of specialization.

Applications from international students must reach the Graduate College by the dates specified on the Application Deadlines page in order to be considered for financial aid. Offers of financial aid are made in writing by the department, which assumes no responsibility to provide financial support unless an offer is made in writing. Also, when the department has made an offer to provide financial support, it has no obligation to honor the offer unless the student attends UNLV and enrolls in the civil and environmental engineering and construction graduate program during the initial semester for which financial aid was offered.

Applicants should notice that some documents must be mailed to the Graduate College while others must be mailed to the Department of Civil and Environmental Engineering and Construction. It is imperative that the documentation is sent to the appropriate location to aid fast processing of the application.

Sajjad Ahmad, Ph.D., Chair
Pramen P. Shrestha, Ph.D., Graduate Coordinator

Civil and Environmental Engineering Faculty

Chair
Ahmad, Sajjad Professor; B.S., University of Engineering and Technology, Lahore, Pakistan; M.E., Asian Institute of Technology, Bangkok, Thailand; Ph.D., University of Western Ontario, London, Ontario, Canada. Rebel since 2006.

Graduate Coordinator
Shrestha, Pramen P Associate Professor; B.S., National Institute of Technology, India; M.S., Oklahoma State University; Ph.D., University of Texas at Austin; P.E. (Texas). Rebel since 2007.

Graduate Faculty
Bista, Jacimaria Ramos - Full Graduate Faculty Professor; B.S., Federal University of Ouro Preto; M.S., Montana College of Mineral Science and Technology; Ph.D., Pennsylvania State University. Rebel since 1997.

Choi, Jin Ouk - Full Graduate Faculty Assistant Professor; B.S., Korea University; M.S., Ph.D., University of Texas at Austin. Rebel since 2016.

Gerrity, Daniel - Full Graduate Faculty Associate Professor; B.S., M.S., Ph.D., Arizona State University. Rebel since 2012.

Ghafoori, Nader - Full Graduate Faculty Professor; B.S.C.E., Texas Tech University; M.S.C.E., Ph.D., University of Miami. Rebel since 2003.

Hayes, Donald - Full Graduate Faculty Professor; B.S.C.E., M.S.C.E., Mississippi State University; Ph.D., Colorado State University; P.E. Louisiana and Mississippi. Rebel since 2011.

James, David E. - Full Graduate Faculty Associate Professor; A.B., University of California, Davis; M.S., Ph.D., California Institute of Technology. Rebel since 1990.

Karakouzian, Moses - Full Graduate Faculty Professor; B.C.E., American University of Beirut; M.S., M.B.A., Ph.D., Ohio State University; Nevada. Rebel since 1988.

Kaseko, Mohamed S. - Full Graduate Faculty Associate Professor; B.S., University of Dares-Salaam; M.S., Cornell University; Ph.D., University of California, Irvine. Rebel since 1993.

Kahn, Eakalak - Full Graduate Faculty Professor; B.Eng., Chang Mai University; M.S., University of Hawai‘i Manoa, M.S., Ph.D., University of California, Los Angeles. Rebel since 2017.

Ladkany, Samaan - Full Graduate Faculty Professor; B.S., American University of Beirut; B.S., M.S., Ph.D., University of Wisconsin, Madison. Rebel since 1984.

Luke, Barbara - Full Graduate Faculty Professor; A.A., University of Florida; B.S., Ph.D., University of Texas at Austin; M.S., University of California, Berkeley. Rebel since 1995.

Martí, Erica - Full Graduate Faculty Assistant Professor; B.S., University of Illinois at Urbana-Champaign; M.Ed., M.S, Ph.D., University of Nevada, Las Vegas. Rebel since 2017.

Neumann, Edward S. - Full Graduate Faculty Professor; B.S.C.E., Michigan Technological University; M.S., Ph.D., Northwestern University. Rebel since 1991.

Opfer, Neil - Full Graduate Faculty Associate Professor; B.S., B.A., B.A., Washington State University; M.S., Purdue University; P.D. Engineering, University of Wisconsin. Rebel since 1989.

Pajouh, Mojdeh - Full Graduate Faculty Assistant Professor; B.Sc., KNT University of Technology; M.Sc., Tehran Polytechnic; Ph.D., Texas A&M University. Rebel since 2018.

Park, Jee - Full Graduate Faculty Assistant Professor; B.S., University of Hawai‘i Manoa; M.S., Stanford University; Ph.D., Georgia Institute of Technology. Rebel since 2017.
Doctor of Philosophy - Civil and Environmental Engineering

Plan Description

The Department of Civil and Environmental Engineering & Construction (CEEC) at UNLV offers a number of program degree options leading to the Doctor of Philosophy (Ph.D.) - Civil and Environmental Engineering. Specific areas of engineering that are currently available include Construction, Geotechnical, Structural, Transportation, and Water Resources/Environmental. Two tracks are available (1) Post-Master’s Track and (2) Post-Bachelor’s Track.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program leading to the Ph.D. in Engineering in the field of Civil and Environmental Engineering is open to those students completing the following requirements:

Applications should be submitted in the Grad Rebel Gateway System.

1. The applicant must submit a Statement of Purpose (SOP) with no more than two pages, indicating his/her interests in the area of specialization (construction, geotechnical, structural, transportation, and water resources/environmental) and objectives in working toward a Ph.D. degree. In addition, three letters of recommendation (LOR) must be submitted from individuals familiar with the applicant’s knowledge, skills and abilities. It is highly recommended that LOR be written on official letter head.

2. International applicants must meet English Proficiency requirements established in UNLV Graduate Catalog.

3. All applicants are required to take GRE General Test and submit the scores to the University of Las Vegas, Nevada (code 4861). Successful applicants generally have a combined verbal and quantitative GRE score of at least 300 and analytical writing score of at least 3.

Post-Master’s Track

1. The applicant to this track must have a Master of Science in Engineering degree or equivalent with a major in civil engineering or a closely allied field. Students with non-engineering backgrounds will be required to complete a set of coursework requirements that will ensure successful completion of the Ph.D. specialization. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after the review of each applicants records and admissions information.
2. A minimum post-baccalaureate GPA of 3.20 on a 4.00 scale (4.00=A) or equivalent is required for admission.

3. The CEEC GPC and Graduate Coordinator make all the final decisions after the review of each applicant’s records and admissions information.

Post-Bachelor’s Track

1. The applicant to this track must have earned a Bachelor of Science in Engineering degree or equivalent with a major in civil engineering or a closely allied field. The CEEC GPC and Graduate Coordinator make all the final decisions after the review of each applicant’s records and admissions information.

2. A minimum baccalaureate overall GPA of 3.20 on a 4.00 scale (4.00=A) and GPA of 3.5 for the last 60 credit hours is required for admission. The CEEC GPC and Graduate Coordinator make all the final decisions after the review of each applicant’s records and admissions information.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Post-Master’s Track
Subplan 2: Post-Bachelor’s Track

Subplan 1 Requirements: Post-Master’s Track

Total Credits Required: 42

Course Requirements

Elective Courses - Credits: 42

Students must successfully complete a minimum of 3 courses from one of the five categories mentioned in the discipline-based list.

Construction

- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
- CEM 751 - Construction Cost Analysis and Estimating
- CEE 609 - Engineering Project Management
- CEE 710 - Modular Construction
- CEE 720 - Information and Sensing Technology in Construction
- CEE 785 - Construction Engineering Management

Geotechnical

- CEE 710 - Modular Construction
- CEE 731 - Pavement Materials and Design

Dissertation – Credits: 18

- CEE 799 - Dissertation Research

Degree Requirements

1. Complete 24 credits of advisor-approved elective graduate-level coursework.

2. Doctoral students who have not completed CEE 700, or its 3-credit equivalent, or did not write a thesis as...
part of their Master of Science studies, will be required to complete CEE 700. CEE 700 course will be counted towards elective credit hours. In addition to CEE 700, all students must successfully complete a minimum of 21 credit hours of approved graduate-level coursework beyond the degree of Master of Science in Engineering. For students who have completed CEE 700, or equivalent, during their Master of Science studies, a minimum of 24 credit hours of approved graduate-level coursework is required.

3. A Doctoral Advisory Committee composed of at least five members of the UNLV graduate faculty is to be formed for the student. At least three of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the fourth member from a related field. The fifth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is strongly recommended that the Doctoral Advisory Committee collective expertise reflects the dissertation topic. The committee chair must be a faculty from the area of expertise chosen for dissertation topic.

4. In addition to the coursework requirements, a dissertation consisting of at least 18 credits of CEE 799 is required with the outcome being manuscripts written for a specific indexed conference or journal.

5. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

6. At least 50% of the courses within the total coursework must be 700 level.

7. Students must maintain a minimum grade point average of 3.00. A course, in which a grade of less than C was earned, will not be considered for use toward the degree.

8. Students must take doctoral qualifying exam including a written component prepared by the student’s graduate committee. The graduate committee shall provide the examination to the CEEC Department Graduate Coordinator who will administer the written qualifying exam for the CEEC Department on scheduled dates.

9. Students who have not passed the qualifying exam by their second attempt will be terminated from the Ph.D. program.

10. After passing the qualifying exam in one area of specialty, the student moves to other area of specialty by changing the advisor; he/she must retake the qualifying exam in the new area of specialty chosen by the student.

11. After passing the qualifying exam, the doctoral student must pass a preliminary exam consisting of the preparation of a written proposal for the dissertation research followed by an oral defense of the proposal. The proposal must be approved by the student’s Doctoral Advisory Committee.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Post-Bachelor’s Track
Total Credits Required: 60

Course Requirements

Elective Courses - Credits: 42
Students must successfully complete a minimum of 3 courses from one of the five categories mentioned in the discipline-based list.

Construction

- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
- CEM 751 - Construction Cost Analysis and Estimating
- CEE 609 - Engineering Project Management
- CEE 720 - Information and Sensing Technology in Construction
- CEE 710 - Modular Construction
- CEE 785 - Construction Engineering Management

Geotechnical

- CEE 710 - Modular Construction
- CEE 731 - Pavement Materials and Design
- CEE 732 - Advanced Foundation Engineering
- CEE 734 - Advanced Soil Mechanics
- CEE 736 - Earth Slopes and Retaining Structures
- CEE 737 - Soil Dynamics and Earthquake Engineering
- CEE 741 - Design of Highway Bridge Structures
- CEE 785 - Construction Engineering Management

Transportation

- CEE 725 - Freight Transportation
- CEE 726 - Railroad Operations
- CEE 735 - Earth Dams and Embankments
- CEE 761 - Transportation Demand Analysis
- CEE 762 - Operations Research Applications in Civil Engineering
- CEE 763 - Advanced Traffic Engineering

Structure
- CEE 741 - Design of Highway Bridge Structures
- CEE 744 - Design of Prestressed/Post-Tensioned Concrete Structures
- CEE 748 - Advanced Design of Timber Structures
- CEE 775 - Seismic Response of Structures
- CEE 780 - Advanced Reinforced Concrete Structures

Water Resources/ Environmental
- CEE 704 - Environmental & Water Systems
- CEE 709 - Numerical Methods in Mechanics
- CEE 750 - Urban Runoff Quality and Control
- CEE 751 - Water Reuse Principles and Design
- CEE 754 - Biochemical Wastewater Treatment Fundamentals
- CEE 755 - Advanced Physicochemical Methods for Water Treatment
- CEE 756 - Advanced Waste Treatment Design
- CEE 757 - Engineering Modeling of Natural Systems
- CEE 758 - Air Quality Modeling
- CEE 759 - Mass Transfer in Environmental Systems
- CEE 768 - Applied Geographic Information Systems

Dissertation - Credits: 18
- CEE 799 - Dissertation Research

Degree Requirements
1. Complete 42 credits of advisor-approved elective graduate-level coursework.

2. Students will be required to complete CEE 700. CEE 700 course will be counted towards elective credit hours. In addition to CEE 700, all students must successfully complete a minimum of 39 credit hours of approved graduate-level coursework beyond the BS degree.

3. A Doctoral Advisory Committee composed of at least five members of the UNLV graduate faculty is to be formed for the student. At least three of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the fourth member from a related field. The fifth faculty member, the Graduate College Representative, is recommended by advisor/ advisee and appointed by the Graduate College. It is strongly recommended that the Doctoral Advisory Committee collective expertise reflects the dissertation topic. The committee chair must be a faculty from the area of expertise chosen for dissertation topic.

4. In addition to the coursework requirements, a dissertation consisting of at least 18 credits of CEE 799 is required with the outcome being manuscripts written for a specific indexed conference or journal.

5. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

6. At least 50% of the courses within the total coursework must be 700 level.

7. Students must maintain a minimum grade point average of 3.00. A course, in which a grade of less than C was earned, will not be considered for use toward the degree.

8. Students must take doctoral qualifying exam including a written component prepared by the student’s graduate committee. The graduate committee shall provide the examination to the CEEC Department Graduate Coordinator who will administer the written qualifying exam for the CEEC Department on scheduled dates.

9. Students who have not passed the qualifying exam by their second attempt will be terminated from the Ph.D. program.

10. After passing the qualifying exam in one area of specialty, the student moves to other area of specialty by changing the advisor; he/she must retake the qualifying exam in the new area of specialty chosen by the student.

11. After passing the qualifying exam, the doctoral student must pass a preliminary exam consisting of the preparation of a written proposal for the dissertation research followed by an oral defense of the proposal. The proposal must be approved by the student’s Doctoral Advisory Committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Subplan 1: Post-Master’s Track
Subplan 2: Post-Bachelor’s Track

Graduate Catalog • College of Engineering 227
Master of Science - Construction Management

Plan Description

The Master of Science in Construction Management (M.S.C.M.) provides graduate-level study for those seeking mid- and upper-level management positions in the construction industry or continued study for the doctorate. Students with degrees in construction management, engineering, science, architecture and business, as well as related disciplines are invited to apply. Applications for admission to the program are evaluated on an individual basis by the Civil and Environmental Engineering and Construction (CEEC) Department’s construction engineering management faculty. Two tracks (thesis and project) are available in M.S.C.M. degree program.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program leading to the M.S.C.M. degree in thesis and project tracks is open to those students completing the following requirements:

1. Applications should be submitted in the Grad Rebel Gateway system.
2. Applicants must have an earned baccalaureate degree from a regionally accredited four-year college or university with preferred study in construction, engineering, architecture, business, or closely related area. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant’s records and admissions information.
3. Overall undergraduate GPA should be at least 2.75 (4.00=A) for the bachelor’s degree or at least 3.00 (4.00=A) for the last 60 credits of undergraduate work.
4. Credit (in semester hours) must have been earned in the following subjects or their equivalents:
   - MATH 181 – Calculus I
   - PHYS 151/151L – General Physics I
   - CEM 250/250L – Construction Materials & Methods
   - CEM 270 – Construction Engineering Mechanics
   A course in construction or engineering graphics
   The leveling courses required of a student before entering the M.S.C.M. program will be determined on an individual basis. The student will be notified in writing of any deficiencies prior to admission to the program. Students with deficiencies exceeding two courses may need to satisfactorily complete them before admission to the graduate program. A minimum grade of C is required in the leveling courses. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant’s records and admissions information.
5. The applicant must submit Statement of Purpose (SOP) with no more than two pages describing the reasons why they wish to earn a master’s degree. In addition, two letters of recommendation (LOR) must be submitted from individuals familiar with applicant’s knowledge, skills and abilities. It is highly recommended that LOR be written on official letter head.
6. International applicants must meet English proficiency requirements established in the UNLV Graduate Catalog.
7. All applicants are required to take GRE General Test and submit the scores to the University of Nevada, Las Vegas (code 4861). Successful applicants generally have a combined verbal and quantitative GRE score of at least 300 and analytical writing score of at least 3.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Thesis Track
Subplan 2: Project Track

Subplan 1 Requirements: Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 13
- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
- CEE 700 - Research Methods in Civil and Environmental Engineering
- 3 Credits of 700 level statistics course with consent of student’s advisor and instructor

Specialty Courses – Credits: 6
Complete at least two of the following courses:
- CEM 685 - Construction Law and Contracts
- CEM 705 - Construction Engineering Management
- CEM 710 - Modular Construction Modular Construction
- CEM 751 - Construction Cost Analysis and Estimating
- CEM 720 - Information and Sensing Technology in Construction
Elective Courses – Credits: 2
Complete 2 credits of advisor-approved elective or specialty coursework.

Thesis – Credits: 9
- CEM 797 - Research Thesis in Construction Engineering and Management

Degree Requirements
1. A Thesis Advisory Committee composed of at least four members of the UNLV graduate faculty is to be formed for the student. At least two of the committee members must be from tenured or tenure-track Construction Engineering Management (CEM) faculty and the third member from CEEC Department. The fourth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is recommended that the Thesis Advisory Committee collective expertise reflects the thesis topic. The committee chair must be a CEM faculty from the area of expertise chosen for the thesis topic.

2. Students must complete at least 21 credits of graduate course, comprised of 13 required 600/700-level credits of CEM, CEE and statistics coursework, 6 credits of specialty courses, and 2 credits of advisor-approved elective or specialty coursework.

3. Students who have credit in CEM 651 and CEM 653 or equivalent courses will select two other courses from the specialty or advisor-approved elective list.

4. In addition to the coursework requirements, 9 credits of research work associated with the master’s level thesis (CEM 797) with the outcome being a manuscript written for a specific indexed conference or journal.

5. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

6. At least 50% of the courses within the total coursework must be 700 level.

7. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

8. All requirements for the M.S.C.M are met upon the satisfactory completion of the proposed research, the submission of a satisfactory thesis, and the successful oral defense of the thesis before the Thesis Advisory Committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Project Track
Total Credits Required: 30

Course Requirements
Required Courses – Credits: 10
- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
  3 Credits of 700 level statistics course with consent of student’s advisor and instructor

Specialty Courses – Credits: 12
Complete four of the following courses:
- CEM 685 - Construction Law and Contracts
- CEM 705 - Construction Engineering Management
- CEM 710 Modular Construction
- CEM 720 Information and Sensing Technology in Construction
- CEM 751 - Construction Cost Analysis and Estimating

Elective Courses – Credits: 5
Complete 5 credits of advisor-approved elective or specialty coursework.

Special Project – Credits: 3
- CEM 796 - Special Project in Construction Engineering and Management

Degree Requirements
1. The student’s Advisor should be tenured or a tenure track Construction Engineering Management faculty member of the CEEC Department. An advisory committee is not required.

2. Students must complete at least 27 credits of graduate course, comprised of 10 credits of required 600/700-level credits of CEM and statistics coursework, 12 credits of specialty coursework, 5 credits of approved elective or specialty coursework.
3. In addition to the coursework requirement, 3 credits of master’s level project (CEM 796) with the outcome being a paper written for a specific indexed conference or journal.

4. Students who have credit in CEM 651 and CEM 653 or equivalent courses will select two other courses from the specialty or advisor-approved elective list.

5. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

6. At least 50% of the courses within the total coursework must be 700 level.

7. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a project and submit a project report.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 1: Thesis Track
Subplan 2: Project Track

Master of Science in Engineering - Civil and Environmental Engineering

Plan Description

The Department of Civil and Environmental Engineering and Construction (CEEC) at UNLV offers a number of program degree options leading to the Master of Science in Engineering (M.S.E.) - Civil and Environmental Engineering. Specific areas of engineering that are currently available include Construction, Geotechnical, Structural, Transportation, and Water Resources/Environmental. Two tracks (thesis and project) are available in M.S.E. degree program along with an Integrated BS-MSE Thesis Track for currently enrolled CEEC undergraduate students.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program leading to the M.S.E. degree in thesis and project tracks is open to those students completing the following requirements:

1. Applications must include all documentation as required by the Graduate College. Applications should be submitted through the Grad Rebel Gateway system.

2. Applicant must have a bachelor’s degree in engineering or a closely-related discipline with an overall GPA of 2.75 (4.00=A) and a GPA of 3.0 (4.00=A) for the last 60 credit hours (semester basis) of undergraduate program. Applicants desiring to specialize in environmental engineering who have baccalaureate degrees in the natural sciences may require at least an additional semester of fulltime study to complete engineering prerequisite undergraduate course work; this may include fluid mechanics, calculus through differential equations, engineering physics, chemistry and engineering economics. Successful environmental engineering applicants are expected to complete a set of graduate courses in engineering hydrology, hydraulics, statistics, water and wastewater treatment, and wastewater treatment plant design during their graduate study. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant’s records and admissions information.

3. The applicant must submit a Statement of Purpose (SOP) with no more than two pages, indicating his/her interests in the area of specialization (construction, geotechnical, structural, transportation, and water resources/environmental) and objectives in working toward a M.S.E. degree. In addition, two letters of recommendation (LOR) must be submitted from individuals familiar with the applicant’s knowledge, skills and abilities. It is highly recommended that LOR be written on official letter head.
4. International applicants must meet English proficiency requirements established in the UNLV Graduate Catalog.

5. All applicants are required to take GRE General Test and submit the scores to the University of Nevada, Las Vegas (code 4861). Successful applicants generally have a combined verbal and quantitative GRE score of at least 300 and analytical writing score of at least 3.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

**Additional Requirements for the Integrated BS-MSE Thesis Track**

This program is designed to provide high-achieving CEEC undergraduate students with the opportunity to be exposed to graduate courses and encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to six credit hours of approved graduate-level coursework with grades of B or better can be taken as technical electives during the senior year. Those credit hours will be also counted towards the graduate degree coursework. The following additional requirements must be satisfied:

1. A minimum of two semesters of full-time enrollment in B.S. of Civil and Environmental Engineering program at UNLV is required.

2. A minimum of 90 credit hours of coursework applicable to the B.S. of Civil and Environmental Engineering degree must be completed before beginning the joint degree program.

3. An overall cumulative GPA of 3.20 or higher and a cumulative GPA in math/science/engineering of 3.50 or higher are needed to begin the Integrated BS-MSE Thesis Track degree program.

Once a student has been admitted into the Integrated BS-MSE Thesis Track program, they must then submit an application for an M.S.E. program in Civil Engineering. The student has to follow the normal application procedures found on the UNLV Graduate College website. Additionally,

1. Student must meet all departmental and Graduate College application deadlines.

2. Student should indicate in their application materials that they are participating in the Integrated BS-MSE Thesis Track program.

3. Student should request a letter of nomination from a CEEC faculty member. Submit this letter along with a short resume (no more than 2 pages). The materials will be evaluated by three faculty members in the student’s technical area of interest or nearby areas.

4. Student must choose the Integrated BS-M.S.E. Thesis Track

Students are accepted into a degree program as described in the Graduate Catalog. The faculty, specific areas, and degree tracks within the described programs are subject to change at any time.

**Plan Requirements**

See Subplan Requirements below.

Subplan 1: Thesis Track
Subplan 2: Project Track
Subplan 3: The Integrated BS-MSE Thesis Track

**Subplan 1 Requirements: Thesis Track**

Total Credits Required: 30

**Course Requirements**

Required Course – Credits: 3
   - CEE 700 - Research Methods in Civil and Environmental Engineering

Elective Courses – Credits: 18

Students must successfully complete a minimum of 3 courses from one of the five categories in the following discipline-based list:

**Construction**
   - CEM 651 - Construction Estimating
   - CEM 653 - Construction Scheduling and Resource Optimization
   - CEM 751 - Construction Cost Analysis and Estimating
   - CEE 609 - Engineering Project Management
   - CEE 710 - Modular Construction
   - CEE 720 - Information and Sensing Technology in Construction
   - CEE 785 - Construction Engineering Management

**Geotechnical**
   - CEE 710 - Modular Construction
   - CEE 731 - Pavement Materials and Design
   - CEE 732 - Advanced Foundation Engineering
   - CEE 734 - Advanced Soil Mechanics
   - CEE 736 - Earth Slopes and Retaining Structures
   - CEE 737 - Soil Dynamics and Earthquake Engineering
   - CEE 741 - Design of Highway Bridge Structures
   - CEE 785 - Construction Engineering Management

**Transportation**
   - CEE 725 - Freight Transportation
   - CEE 726 - Railroad Operations
   - CEE 735 - Earth Dams and Embankments
   - CEE 761 - Transportation Demand Analysis
   - CEE 762 - Operations Research Applications in Civil Engineering
   - CEE 763 - Advanced Traffic Engineering
Structure
- CEE 741 - Design of Highway Bridge Structures
- CEE 744 - Design of Prestressed/Post-Tensioned Concrete Structures
- CEE 748 - Advanced Design of Timber Structures
- CEE 775 - Seismic Response of Structures
- CEE 780 - Advanced Reinforced Concrete Structures

Water Resources/Environmental
- CEE 704 - Environmental & Water Systems
- CEE 709 - Numerical Methods in Mechanics
- CEE 750 - Urban Runoff Quality and Control
- CEE 751 - Water Reuse Principles and Design
- CEE 754 - Biochemical Wastewater Treatment Fundamentals
- CEE 755 - Advanced Physicochemical Methods for Water Treatment
- CEE 756 - Advanced Waste Treatment Design
- CEE 757 - Engineering Modeling of Natural Systems
- CEE 758 - Air Quality Modeling
- CEE 759 - Mass Transfer in Environmental Systems
- CEE 768 - Applied Geographic Information Systems

Thesis – Credits: 9
- CEE 797 - Thesis in Civil Engineering

Degree Requirements
1. A Thesis Advisory Committee composed of at least four members of the UNLV graduate faculty is to be formed for the student. At least two of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the third member from a related field. The fourth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is recommended that the Thesis Advisory Committee collective expertise reflects the thesis topic. The committee chair must be a faculty from the area of expertise chosen for thesis topic.

2. In addition to CEE 700, all students must successfully complete a minimum of 18 credit hours of approved graduate courses, out of which a minimum of 3 courses from one of the five categories in the discipline-based list provided above.

3. In addition to the coursework requirements, 9 credits of research work associated with the master’s level thesis (CEE 797) with the outcome being a manuscript written for a specific indexed conference or journal.

4. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

5. At least 50% of the courses within the total coursework must be 700 level.

6. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

7. All requirements for the M.S.E. are met upon the satisfactory completion of the proposed research, the submission of a satisfactory thesis, and the successful oral defense of the thesis before the Thesis Advisory Committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Project Track
Total Credits Required: 30

Course Requirements
Elective Courses - Credits: 27
Students must successfully complete a minimum of 3 courses from one of the five categories in the following discipline-based list.

Construction
- CEE 609 - Engineering Project Management
- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
- CEM 705 - Construction Engineering Management
- CEM 751 - Construction Cost Analysis and Estimating
- CEE 710 - Modular Construction
- CEE 720 - Information and Sensing Technology in Construction
Degree Requirements

1. The student’s Advisor should be tenured or a tenuretrack faculty member of the CEEC Department. An advisory committee is not required.

2. Students must complete a minimum of 27 credit hours of approved graduate-level courses, out of which a minimum of 3 courses from one of the five categories in the discipline-based list provided above, and 3 credits of project work associated with the master’s level project (CEE 796) with the outcome being a paper written for a specific indexed conference or journal.

3. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

4. At least 50% of the courses within the total coursework must be 700 level.

5. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

6. All requirements for the M.S.E. are met upon the satisfactory completion of the project, and the submission of a satisfactory project report to the Advisor.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a project and submit a project report.

Subplan 3 Requirements: The Integrated BS-MSE Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses - Credits: 3

- CEE 700 - Research Methods in Civil and Environmental Engineering

Elective Courses - Credits: 18

Students must successfully complete a minimum of 3 courses from one of the five categories in the following discipline-based list:

Construction

- CEE 609 - Engineering Project Management
- CEM 651 - Construction Estimating
- CEM 653 - Construction Scheduling and Resource Optimization
- CEM 705 - Construction Engineering Management
- CEM 751 - Construction Cost Analysis and Estimating
- CEE 710 - Modular Construction

- CEE 704 - Environmental & Water Systems
- CEE 709 - Numerical Methods in Mechanics
- CEE 750 - Urban Runoff Quality and Control
- CEE 751 - Water Reuse Principles and Design
- CEE 754 - Biochemical Wastewater Treatment Fundamentals
- CEE 755 - Advanced Physicochemical Methods for Water Treatment
- CEE 756 - Advanced Waste Treatment Design
- CEE 757 - Engineering Modeling of Natural Systems
- CEE 758 - Air Quality Modeling
- CEE 759 - Mass Transfer in Environmental Systems
- CEE 768 - Applied Geographic Information Systems
Degree Requirements

1. A Thesis Advisory Committee composed of at least four members of the UNLV graduate faculty is to be formed for the student. At least two of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the third member from a related field. The fourth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is recommended that the Thesis Advisory Committee collective expertise reflects the thesis topic. The committee chair must be a faculty from the area of expertise chosen for thesis topic.

2. In addition to CEE 700, all students must successfully complete a minimum of 18 credit hours of approved graduate courses, out of which a minimum of 3 courses from one of the five categories in the discipline-based list provided above.

3. In addition to the coursework requirements, 9 credits of research work associated with the master’s level thesis (CEE 797) with the outcome being a manuscript written for a specific indexed conference or journal.

4. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

5. At least 50% of the courses within the total coursework must be 700 level.

6. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

6. All requirements for the M.S.E. are met upon the satisfactory completion of the proposed research, the submission of a satisfactory thesis, and the successful oral defense of the thesis before the Thesis Advisory Committee. In addition to this, the following are required.

Additional Requirements for the Integrated BS-MSE

Students enrolled through Integrated BS-MSE Thesis Track option must meet requirements for both B.S. and M.S.E. degree as follows:

B.S. Degree Requirements

1. Students must successfully complete all of the existing B.S. degree requirements for Civil Engineering at UNLV.

2. Students may take up to 6 credits of approved graduate level courses in place of undergraduate courses. These classes would typically substitute for the undergraduate technical electives.

3. Undergraduates taking graduate courses must pay the graduate tuition and fees for these courses.

4. Students will graduate with the B.S. degree as soon as all B.S. degree requirements are completed.
M.S.E. Degree Requirements

1. Students must meet all of the other degree requirements for the M.S.E. Thesis Track degree.

2. The 6 graduate-level class credits taken as part of the undergraduate program may count for the M.S.E. degree as long as the course grades are B (3.00) or better and their average GPA for these classes is a 3.00 or above.

3. Students must pursue Thesis Track to receive the course release. Students who later elect to pursue a M.S.E. Project Track degree must apply to the M.S.E. degree and complete all the requirements listed for that degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 1: Thesis Track
Subplan 2: Project Track
Subplan 3: The Integrated BS-MSE Thesis Track

Master of Science in Transportation

Plan Description

The Master of Science in Transportation (M.S.T.) degree program is oriented toward the practice of transportation science and engineering, with emphasis on the planning, design, operations, and maintenance of transportation systems. It is intended for applicants with all backgrounds especially those in areas other than engineering, and who either presently work for or aspire to work for transportation agencies or private companies who provide professional services in the transportation field. The program is multi-disciplinary in nature and students must take courses from at least two colleges. Two tracks (thesis and project) are available in M.S.T. degree program.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program leading to the M.S.T. degree in thesis and project tracks is open to those students completing the following requirements:

1. Applications must include all documentation as required by the Graduate College. Applications should be submitted in the Grad Rebel Gateway system.

2. Applicants must have earned a Bachelor of Science or Bachelor of Arts degree from a regionally accredited four-year college or university. If applicant’s degree is in a field other than engineering, it is desirable for the bachelor’s degree to be earned in one of the following areas: urban or regional planning, architecture, business, economics, public administration, quantitative geography, computer science, mathematics, operations research, statistics, political science, physical science, psychology, health sciences, or similar discipline. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant’s records and admissions information.

3. Overall undergraduate GPA of at least 2.75 on a 4.00 scale (4.00=A) or equivalent is required for admission or at least 3.00 (4.00=A) for the last two years of undergraduate work. The CEEC Graduate Program Committee (GPC) and Graduate Coordinator make all the final decisions after review of each applicant’s records and admissions information.

4. Prior credit (in semester hours) with grades of B or better must have been earned in the following subjects or their equivalents: • MATH 181 – Calculus I • PHYS 151/151L or 152/152L— General Physics I or II • STA 152 - Statistics
5. The applicant must submit a Statement of Purpose (SOP) with no more than two pages, indicating previous experience and the reasons why they wish to pursue the M.S.T. degree, and how the degree will be utilized following graduation. In addition, two letters of recommendation (LOR) must be submitted from individuals familiar with the applicant’s knowledge, skills and abilities. It is highly recommended that LOR be written on official letter head.

6. International applicants must meet English proficiency requirements established in the UNLV Graduate Catalog.

7. All applicants are required to take GRE General Test and submit the scores to the University of Nevada, Las Vegas (code 4861). Successful applicants generally have a combined verbal and quantitative GRE score of at least 300 and analytical writing score of at least 3.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty, specific areas, and degree tracks within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Thesis Track
Subplan 2: Project Track

Subplan 1 Requirements: Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 3

- CEE 700 - Research Methods in Civil and Environmental Engineering

Elective Courses – Credits: 18

Complete 18 credits of advisor-approved elective coursework including a minimum of 3 courses from the following discipline-based list:

- CEE 725 - Freight Transportation
- CEE 726 - Railroad Operations
- CEE 735 - Earth Dams and Embankments
- CEE 761 - Transportation Demand Analysis
- CEE 762 - Operations Research Applications in Civil Engineering
- CEE 763 - Advanced Traffic Engineering

Thesis – Credits: 9

- CEE 797 - Thesis in Civil Engineering

Degree Requirements

1. A Thesis Advisory Committee composed of at least four members of the UNLV graduate faculty is to be formed for the student. At least two of the committee members must be from tenured or tenure-track faculty of the CEEC Department and the third member can be from a related field. The fourth faculty member, the Graduate College Representative, is recommended by advisor/advisee and appointed by the Graduate College. It is recommended that the Thesis Advisory Committee collective expertise reflects the thesis topic. The committee chair must be a faculty from the area of expertise chosen for thesis topic.

2. In addition to CEE 700, all student must successfully complete a minimum of 18 credit hours of approved graduate courses.

3. In addition to the coursework requirements, 9 credits of research work associated with the master’s level thesis (CEE 797) with the outcome being a manuscript written for a specific indexed conference or journal.

4. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

5. At least 50% of the courses within the total coursework must be 700 level.

6. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was earned will not be considered for use toward the degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Project Track

Total Credits Required: 30

Course Requirements

Elective Courses - Credits: 27

Complete 27 credits of advisor-approved elective coursework including a minimum of 3 courses from the following discipline-based list:
Subplan 2: Project Track

- CEE 725 - Freight Transportation
- CEE 726 - Railroad Operations
- CEE 735 - Earth Dams and Embankments
- CEE 761 - Transportation Demand Analysis
- CEE 762 - Operations Research Applications in Civil Engineering
- CEE 763 - Advanced Traffic Engineering

Project - Credits: 3
- CEE 796 - Design Project in Civil Engineering

Degree Requirements

1. The student’s Advisor should be tenured or a tenuretrack faculty member of the CEEC Department. An advisory committee is not required.

2. Students must complete a minimum of 27 credit hours of approved graduate courses, and 3 credits of project work associated with the master’s level project (CEE 796) with the outcome being a paper written for a specific indexed conference or journal.

3. At least 50% of the courses (600 and 700 level) within the total coursework must be from the College of Engineering.

4. At least 50% of the courses within the total coursework must be 700 level.

5. Students must maintain a minimum grade point average of 3.00. A course in which a grade of less than C was received will not be considered for use toward the degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a project and submit a project report.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan1: Thesis Track
Subplan 2: Project Track

- CEE 604 - Open Channel Flow
  Detailed examination and design of open channel flow systems. Includes energy and momentum principles, non-uniform flow, transition design, design of channel controls, design of hydraulic structures, wave motions, unsteady flow, and flood routing. Notes: This course is crosslisted with CEE 404. Credit at the 600-level requires additional work.
  Credits 3

- CEE 606 - Hydrologic Analysis and Design
  Modeling and analysis of hydrologic systems with application to engineering design. Includes rainfall-runoff analysis, dynamic flood routing, statistical theories, and stochastic processes. Notes: This course is crosslisted with CEE 406. Credit at the 600-level requires additional work.
  Credits 3

- CEE 607 - Computer Applications in Environmental and Water Resources Engineering
  Application of computer models for analysis and design of environmental and water resource systems. Includes surface and groundwater hydrology, pipe networks, and water quality computer programs.
  Credits 3

- CEE 609 - Engineering Project Management
  Engineering aspects of contracts, labor law, specification development, and cost estimating. Project scheduling and cost using critical path methods. Notes: This course is crosslisted with CEE 409. Credit at the 600-level requires additional work.
  Credits 3

- CEE 610 - Highway Construction Materials
  Composition, properties, and production of Portland cement, concrete, bituminous materials, and bituminous mixtures. Notes: This course is crosslisted with CEE 410. Credit at the 600 level requires additional work.
  Credits 3

- CEE 613 - Water Resources Engineering
  Credits 3

- CEE 632 - Geological Engineering
  Incorporation of geologic factors in civil engineering works. Engineering properties of rocks and soils; engineering implications of geologic structure and processes; geologic hazards; geologic/geotechnical site investigations, including engineering geophysics. Notes: This course is crosslisted with CEE 432. Credit at the 600-level requires additional work.
  Credits 3

- CEE 634 - Rock Mechanics
  Mechanical behavior of rock with engineering and geologic application; basic solid mechanics and rheology of rocks; rock testing; theories of failure; Griffith theory, McClintock-Walsh theory; scale effects and creep. Engineering applications in tunneling and dam foundations. Geologic applications in faulting, folding, isostasy, igneous intrusion, and petroleum formation. Notes: This course is crosslisted with CEE 434. Credit at the 600-level requires additional work.
  Credits 3

- CEE 635 - Foundations Engineering
  Site investigations, footings, slope stability, rock and soil foundations, piles. Notes: This course is crosslisted with CEE 435. Credit at the 600-level requires additional work.
  Credits 3

- CEE 636 - Engineering Geophysics
  Introduction to geophysical methods used in shallow earth explorations for engineering purposes, such as site characterization and waste site investigations. Emphasis on seismic and electrical/electromagnetic methods. Laboratory experience includes hands-on use of state-of-the-art equipment. Appropriate for students in Civil Engineering, Geoscience, and Physics. Notes: This course is crosslisted with CEE 436. Credit at the 600-level requires additional work.
  Credits 3

- CEE 644 - Steel Structural Design
  Introduction to design of structural systems in steel; LRFD method. Design of tension members, beams, columns and beam-columns. Design of connections, welded and bolted. Introduction to torsion. Notes: This course is crosslisted with CEE 444. Credit at the 600-level requires additional work.
  Credits 3
CxEE 650 - Unit Operations/Processes in Environmental Engineering Credits 3

CxEE 650L - Unit Operations/Processes Laboratory Credits 1
Instrumental and wet chemical laboratory methods commonly used for characterization of water and wastewater. Measurements of solids, pH, alkalinity, hardness, dissolved oxygen, BOD, COD, SVI, turbidity, chlorine residual, MPN, nitrogen and phosphorus. Notes: This course is crosslisted with CEE 450L. Credit at the 600-level requires additional work.

CxEE 651 - Environmental Water Chemistry and Analysis Credits 3
An engineering approach to equilibrium chemistry, including acid-base reactions, metal speciation, and oxidation-reduction reactions. Introduction to the analysis of water and wastewater quality. Notes: This course is crosslisted with CEE 451. Credit at the 600-level requires additional work. Grading: Letter grade

CxEE 652 - Air Pollution Control Fundamentals Credits 3
Components of polluted air and air quality regulations. Control equipment material balances and process design for particulate removal. Combustion fundamentals and VOC removal. Meteorology and dispersion modeling. Automotive emissions controls. Notes: This course is crosslisted with CEE 452. Credit at the 600-level requires additional work.

CxEE 654 - Solid and Hazardous Wastes Engineering Credits 3
Solid waste collection, separation and disposal. Recycling and containment technologies. Adsorption and microbial degradation. Thermal, radiation, and solidification methods for destruction of hazardous wastes. Site remediation. Notes: This course is crosslisted with CEE 454. Credit at the 600-level requires additional work.

CxEE 655 - Water Treatment Principles and Design Credits 3
This upper-division engineering course is open to graduate students, provided it demonstrates a level of accomplishment suitable to graduate study. The Undergraduate Catalog should be consulted for a description of the course. In the Undergraduate Catalog, the course is numbered as 4XX, where the XX represents the same last two digits as the 600 course listed (for example, the description for CEE 604 appears under CEE 404). Credit at the 600-level requires additional work.

CxEE 661 - Introduction to Railroad Transportation Credits 3
This course will cover aspects in railway track, vehicle motion, signals and communications, railway track maintenance, railway operations, freight operations, and passenger train operations. Prerequisites: Consent of instructor.

CxEE 662 - Railroad Engineering Credits 3
Design of major elements of railroad track, including track, subgrade materials, design and construction, construction costs and stability problems, drainage, ballast, cross ties, concrete and other artificial ties, rail, fastenings and other track material, track geometry, turnouts and crossings, track-train dynamics, conduct of work, and railroad right of way. Prerequisites: Consent of instructor.

CxEE 663 - Traffic Engineering Credits 3
Studies in highway and traffic planning and principles of traffic operations. Notes: This course is crosslisted with CEE 463. Credit at the 600-level requires additional work.

CxEE 664 - Airport Design Credits 3
Fundamental engineering principles in planning, location, design, and operation of airport facilities (terminals, apron areas, taxiways, and runways); ground access, drainage, aircraft characteristics and performance as they relate to airport design, aircraft noise and environmental considerations; elements of air traffic control. Notes: This course is crosslisted with CEE 464. Credit at the 600-level requires additional work.

CxEE 665 - Fire Protection Engineering Credits 3
This upper-division engineering course is open to graduate students, provided it demonstrates a level of accomplishment suitable to graduate study. The Undergraduate Catalog should be consulted for a description of the course. In the Undergraduate Catalog, the course is numbered as 4XX, where the XX represents the same last two digits as the 600 course listed (for example, the description for CEE 604 appears under CEE 404).

CxEE 666 - Geometric Design of Highways Credits 3
Design of visible elements of highways such as horizontal and vertical alignment and cross-section in accordance with design controls derived from characteristics of vehicles, drivers, traffic, and pedestrians interacting with geometry, terrain, and environment to yield a safe roadway at design capacity. Notes: This course is crosslisted with CEE 466. Credit at the 600-level requires additional work.

CxEE 667 - Computer Applications in Transportation Engineering Credits 3
Application of computer software models and programs for solving planning, design, and operations problems in transportation engineering. Includes traffic network analysis models, transportation planning, and impact models. Notes: This course is crosslisted with CEE 467. Credit at the 600-level requires additional work.

CxEE 668 - GIS Applications in Civil Engineering Credits 3
Introduction to the basics of Geographic Information Systems software and hardware and their use in civil engineering. Emphasis on the application of GIS for the planning, design, operations, and maintenance of civil engineering systems. Laboratory sessions provide hands-on experience with GIS software and hardware using specific examples/case studies of GIS applications in various areas of civil engineering. Notes: This course is crosslisted with CEE 468. Credit at the 600-level requires additional work.

CxEE 670 - High Speed Rail Credits 3
This course covers high speed rail stations, tracks, traction and power, rolling stock, signals and communications, traffic organization, passenger service, and maintenance. Prerequisites: Consent of instructor.

CxEE 671 - Public Transportation Systems Credits 3
Analysis and evaluation of mass transit systems; their operation and management: demand and cost analysis; route design, schedules and fare policy. Technology of transit systems including vehicles and structures. Transit financing. Impact on land use and environment. Formerly: CEE 765. Prerequisites: Consent of instructor.

CxEE 676 - Earthquake Engineering Credits 3
Introduction to vibration theory; seismic hazards; spectra of vibrations. Application of UBC Simplified Static Method and Static Method. Introduction to design of earthquake resistant structures. Discussion of diaphragms, chords and struts. Formerly: CEG 681 Notes: This course is crosslisted with CEE 476. Credit at the 600-level requires additional work.

CxEE 677 - Design of Underground Structures Credits 3
Design of tunnels, shafts, and underground chambers in soil and hard rocks. Formerly: CEG 683 Notes: This course is crosslisted with CEE 477. Credit at the 600-level requires additional work.

CxEE 678 - Applied Finite Element Analysis Credits 3
Introduction to the finite element method with computer applications to engineering problems in structural analysis, two- and three-dimensional solid mechanics and continuum. Notes: This course is crosslisted with CEE 478. Credit at the 600-level requires additional work.
CEE 680 - Concrete Design Credits 3
Introduction to design of structural systems in concrete. Design of beams, one-way slabs, columns and beam-columns. Design of T-beams and doubly-reinforced beams. Anchorage and bar cutoffs. Formerly: CEG 643 Notes: This course is crosslisted with CEE 480. Credit at the 600-level requires additional work.

CEE 682 - Design of Timber Structures Credits 3
Determination of simple wind and seismic forces on one and two story structures. Discussion of engineering properties of wood. Introduction to the design of sawn beams for flexure, shear, bearing and deflection. Introduction to the design of axially loaded columns. Brief introduction to the design of trusses, diaphragms and shear walls. Formerly: CEG 648 Notes: This course is crosslisted with CEE 482. Credit at the 600-level requires additional work.

CEE 695 - Special Topics Credits 1-3
Outlet for experimental and other topics which may be of current interest. Notes: This course is crosslisted with CEG 495. Credit at the 600 level requires additional work. Topics and credits to be announced. May have a laboratory. May be repeated to a maximum of 9 credits.

CEE 700 - Research Methods in Civil and Environmental Engineering Credits 3
Methods to improve and develop research skills and prepare students for professional careers at the graduate level. Includes principles of scientific research, ethics, writing skills, methods for compiling scientific literature, identification of research questions and specific hypotheses, presentation of research results, writing research papers, proposal preparation, preparation of grant proposals, thesis and dissertation.

CEE 704 - Environmental & Water Systems Credits 3
Introduction to techniques to evaluating alternatives in environmental and water resources systems. Topics include southwest U.S. water economic analysis, optimization using linear and dynamic programming, systems modeling using STELLA, analysis of droughts, and current research topics. Applications focus on surface water systems, operation, and reservoirs, water distribution and environmental systems. Prerequisites: CEE 413

CEE 709 - Numerical Methods in Mechanics Credits 3
Numerical solution of partial differential equations arising from problems in mechanics. Emphasis on finite difference techniques. Topics include classification of equations: solutions of elliptic, parabolic, and hyperbolic equations; stability, consistency and convergence and nonlinear equations; multidimensional problems; systems of equations; discontinuous solutions. Prerequisites: MATH 466 or ME 445 or consent of instructor.

CEE 710 - Modular Construction Credits 3
An overall understanding of modular construction (modularization) concepts including, advantages, disadvantages, impediments, industry status, business case process, execution plans, critical success factors, and standardization strategies of modularization.

CEE 711 - Continuum Mechanics Credits 3
Matrices and tensors, stress deformation and flow, compatibility conditions, constitutive equations, field equations and boundary conditions in fluids and solids, applications in solid and fluid mechanics. Prerequisites: MATH 431 and graduate standing.

CEE 720 - Information and Sensing Technology in Construction Credits 3
State-of-the-art technology and its potential and current use in construction research. Industrial efforts in developing and improving various aspects of construction operation and management. Prerequisites: Admission into Master of Science in Engineering - Civil and Environmental Engineering, Master of Science - Construction Management, Master of Science in Transportation, or Doctor of Philosophy - Civil and Environmental Engineering program.

CEE 725 - Freight Transportation Credits 3
This course covers freight, commodities, facilities and operations in the major modes of the transportation system and freight planning. Grading: Letter grade Prerequisites: Consent of instructor.

CEE 726 - Railroad Operations Credits 3
This course covers the dynamics of train movements, spacing trains, interlock principles, capacity, scheduling and control of railroad operations. Prerequisites: Consent of instructor.

CEE 731 - Pavement Materials and Design Credits 3
In-depth study of pavement materials such as soils, asphaltic concrete and Portland cement concrete; analytical and empirical methods for design of flexible and rigid pavements; pavement rehabilitation and management. Includes highway and airfield pavements. Prerequisites: CEE 334, CEE 334L, CEE 362

CEE 732 - Advanced Foundation Engineering Credits 3
Detailed study and analysis of the mechanical properties of soils with applications to foundation behavior. Prerequisites: CEE 334, CEE 334L, CEE 435

CEE 733 - Advanced Soil Mechanics Credits 3
Stress-strain properties and shear strength of soil: settlements and stability analysis. Prerequisites: CEE 334, CEE 334L

CEE 735 - Earth Dams and Embankments Credits 3
Principles governing the flow of water through soils and their applications to design of earth dams and embankments. Methods of earth dam design, including earthquake design, theory of wells, and groundwater flow. Grading: Letter grade Prerequisites: CEE 334 and CEE 478/CEE 678

CEE 736 - Earth Slopes and Retaining Structures Credits 3
Analysis and design of stable earth slopes, including slopes cut from natural deposits and engineered embankments. Analysis and design of earth retaining structures. Both theoretical and practical aspects of design discussed. Prerequisites: CEE 334, CEE 334L

CEE 737 - Soil Dynamics and Earthquake Engineering Credits 3
Use of dynamics in geotechnical engineering, for nondestructive characterization of engineering materials, and for design of foundations subjected to dynamic loads. Geotechnical aspects of earthquake engineering, particularly effect of soils on ground-surface motions, and soil liquefaction during earthquakes. Prerequisites: CEE 334, CEE 334L

CEE 741 - Design of Highway Bridge Structures Credits 3

CEE 744 - Design of Prestressed/Post-Tensioned Concrete Structures Credits 3
Study of principles of prestressed concrete, both pre-tensioned and post-tensioned, applied to structural design of buildings and bridges. Discussion of effects of lateral loads on structures. Introduction to analysis and design of shear walls. Discussion of connections between members. Prerequisites: CEE 480 and graduate standing.

CEE 747 - Introduction to Analysis and Design of Plates and Shells Credits 3
Introduction to the analysis and design of plates and shell structures. Bending of flat rectangular and circular plates with various boundary and loading conditions. Membrane analysis of spherical, cylindrical shells, and shells of revolution with ring reinforcement. Prerequisites: CEE 381 and graduate standing.

CEE 748 - Advanced Design of Timber Structures Credits 3
Study of wood as an engineering material used in various types of construction. Strength properties of timber, structural properties of plywood, analysis and design of timber beams, timber columns, analysis and design of connections using nails, bolts, and adhesives. Grading: Letter grade Prerequisites: MATH 431 and any one of CEE 444, 480 or 482.
CEE 749 - Advanced Topics in Finite Element Analysis  Credits 3  
Properties and applications of isoparametric elements, solids of revolution elements, plate bending elements, finite elements of dynamics, vibrations and buckling instability. Introduction to nonlinear problems using finite element analysis. Prerequisites: CEE 478 or consent of instructor.

CEE 750 - Urban Runoff Quality and Control  Credits 3  
Study of the quality of urban runoff during wet and dry periods. Topics include: review of hydrologic concepts, modeling water quantity and quality in stormwater systems, water quality of non-point sources, control structures or Best Management Practices (BMPs), evaluation of current research, discussion of current regulations. Prerequisites: CEE 413 and CEE 450 or consent of instructor.

CEE 751 - Water Reuse Principles and Design  Credits 3  
Principles and design for a variety of water reuse applications. Topics include emerging chemical and microbial contaminants, nonpotable and potable reuse, advanced treatment trains, and public perception. Case studies of existing reuse systems will be discussed. Grading: Letter grade Prerequisites: CEE 650 or equivalent, or consent of instructor.
CEE 796 - Design Project in Civil Engineering Credits 1 – 3
Synthesis course to involve students in the design process from analysis and proposal to solution. Notes: May be repeated to a maximum of three credits. Not permitted for students pursuing the M.S.E. Thesis option or for those in the Ph.D. Program. Prerequisites: Graduate standing in civil engineering and consent of instructor.

CEE 797 - Thesis in Civil Engineering Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to program. Grading: S/F grading only. Prerequisites: Graduate standing in civil engineering.

CEE 799 - Dissertation Research Credits 1 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated with a maximum of 18 credits allowed to be used towards the degree. Grading: S/F grading only. Prerequisites: Graduate standing in Ph.D. program and consent of advisor.

CEE 632 - Temporary Construction Structures Credits 3
Analysis, design, and construction of temporary structures including formwork, falsework, shoring, rigging, and access units. Cost analysis. Computer analysis applications. Safety consideration. Notes: This course is crosslisted with CEM 432. Credit at the 600-level requires additional work.

CEE 651 - Construction Estimating Credits 4
Principles and procedures used in estimating construction costs. Application of quantity determination, estimate pricing, specifications, subcontractor and supplier solicitation, risk assessment and risk analysis, and final bidding preparation. Computer-based estimating used for semester project. Notes: This course is crosslisted with CEM 451/CEM 451L. Credit at the 600 level requires additional work.

CEE 653 - Construction Scheduling and Resource Optimization Credits 3
Scheduling and resource optimization. Includes short-interval scheduling, Gantt charts, linear, and matrix scheduling formats. Network techniques including CPM and PERT concepts and calculations. Computer applications. Notes: This course is crosslisted with CEM 453/CEM 453L. Credit at the 600 level requires additional work.

CEE 654 - Heavy Construction Equipment & Methods Credits 3
Characteristics, capabilities, limitations, uses and selection of heavy construction equipment. Construction methods selection. Construction equipment process planning and improvement, fleet operations, and maintenance programs. Notes: This course is crosslisted with CEM 454. Credit at the 600-level requires additional work. Field Trips

CEE 680 - Sustainable Construction Credits 3
Overview of sustainable design and construction. Introduction to green buildings, LEED assessment process, high-performance building, and green building material. Economic analysis of green buildings. Notes: This course is crosslisted with CEM 480. Credit at the 600-level requires additional work. Prerequisites: Consent of instructor.

CEE 685 - Construction Law and Contracts Credits 3
Legal problems in the construction process. Stipulated sum, unit price, and cost-plus contracts. Construction lien rights and bond rights. Scope of work issues. Builders risk issues. Risk-shifting. Case studies. Notes: This course is crosslisted with CEM 485. Credit at the 600-level requires additional work.

CEE 693 - Independent Study Credits 1-3
Independent study of a selected construction topic. Notes: This course is crosslisted with CEM 493. Credit at the 600 level requires additional work.

CEE 695 - Special Topics in Construction Management Credits 1-4
Experimental and other topics which may be of current interest in construction management. Notes: This course is crosslisted with CEM 495. Credit at the 600-level requires additional work.

CEE 700 - Research Methods in Construction Management Credits 3
Introduction to research process, design, measurement, sampling, analysis, and results, research information resources, and literature review. Corequisite MBA 775 or STAT 463 or equivalent or consent of instructor.

CEE 705 - Construction Engineering Management Credits 3
Technical project management applications for pre-project planning, design-pre-construction services, value engineering, construction, start up/commissioning and decommissioning of capital facilities. Corequisite CEM 451/CEM 651 and CEM 451/CEM 653

CEE 720 - Information and Sensing Technology in Construction Credits 3
State-of-the-art technology and its potential and current use in construction research. Industrial efforts in developing and improving various aspects of construction operation and management. Grading: Letter grade Prerequisites: Admission into Master of Science in Engineering - Civil and Environmental Engineering, Master of Science - Construction Management, Master of Science in Transportation, or Doctor of Philosophy - Civil and Environmental Engineering program.

CEE 740 - Construction Safety and Performance Improvement Credits 3
Introduction to construction safety issues, regulations and ways to improve safety on the job site. Accidents and their causes, OSHA regulations, and worker safety programs. Productivity concepts, data collection, and analysis of data and factors affecting construction productivity. Means for improving production and study of productivity improvement programs. Prerequisites: CEE 381 or ABS 341, and graduate standing.

CEE 750 - Advanced Construction Scheduling Credits 3

CEE 751 - Construction Cost Analysis and Estimating Credits 3
Advanced topics in construction estimating including value engineering, pricing strategies, and computer concepts. Development of estimating data. Computer-aided design and cost integration. Range, factor, and parametric estimating. Production factors. Prerequisites: CEM 451 or CEM 651 or consent of instructor.

CEE 755 - Renewable Energy Capital Facility Projects Credits 3
Overview of control and management of the cost, timing, and value of capital-investment in renewable energy projects such as solar thermal power plants, photovoltaic plants, biomass power plants, biofuel power plants, hydroelectric power plants, geothermal power plants, tidal power station, wave power station and on-shore/off-shore wind power plants. Prerequisites: Graduate standing.

CEE 775 - Construction Operations and Management Credits 3

CEE 777 - Construction Operations and Management Credits 3

CEE 780 - Construction Engineering Credits 3
Advanced topics in construction engineering addressing techniques and sequences employed in the construction of heavy and industrial projects. Prerequisites: CEE 334 or CEM 330, CEE 381 or CEM 370

CEE 793 - Advanced Independent Study Credits 1 – 3
Advanced independent study of a selected construction topic. Paper required. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of instructor.
CEM 795 - Advanced Special Topics in Construction Management Credits 1 – 6
Outlet for experimental and other topics of interest in advanced construction management. Paper required. Topics and credits to be announced. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing in major.

CEM 796 - Special Project in Construction Engineering and Management Credits 1 – 3
Development and undertaking of a project investigating a topic of interest related to construction engineering or construction management. Notes: May be repeated for a maximum of three credits. Prerequisites: Graduate standing.

CEM 797 - Research Thesis in Construction Engineering and Management Credits 1 – 3
Development and undertaking of a research study on a contemporary topic related to construction engineering or construction management. Preparation and presentation of a research thesis. Preparation of a project report. Notes: May be repeated for a maximum of six credits. Prerequisites: Graduate standing.

EGG 651 - Ergonomics Credits 3
Design of the work environment to facilitate the safety of the worker and the improvement of work performance, with emphasis on the biomechanical requirements and musculoskeletal consequences of work activity. Notes: This course is crosslisted with EGG 451. Credit at the 600-level requires additional work.

EGG 695 - Special Topics Credits 3
This upper-division engineering course is open to graduate students, provided it demonstrates a level of accomplishment suitable to graduate study. The Undergraduate Catalog should be consulted for a description of the course. In the Undergraduate Catalog, the course is numbered as 4XX, where the XX represents the last two digits as the 600 course listed (for example, the description for CEE 604 appears under CEE 404).

EGG 747 - Orthopedic Biomechanics - Lower Extremities and Spine Credits 3
Biomechanics of the lower extremities and spine; engineering properties and physiology of bone, cartilage, and tendon; analysis of gait; effects of orthopedic impairment and injury; design and surgical implantation of prosthetic joints and fracture fixation devices; engineering of tissue regeneration and replacement. Same as ME 747 Prerequisites: Graduate standing in engineering or kinesiology or consent of instructor.

EGG 750 - Analysis of Human Movement Credits 3
Analysis of the kinematics and kinetics of human movement in two and three dimensions with emphasis on methods used in motion capture, including joint and segment position; acceleration, velocity, force and torque; work and power; and inverse solution methods. Same as ME 750 Prerequisites: Graduate standing in engineering or kinesiology or consent of instructor.

EGG 768 - Applied Geographic Information Systems Credits 4
Review of data structures and algorithms for surfaces, volumes and time, elevation models, spatial interpolation. Error modelling and data uncertainty. Visualization of spatial data. Decision making in a GIS context. Emphasis on interdisciplinary group project constructing a data base and maps involving several areas of expertise using popular GIS software. Prerequisites: EGG 668, STA 751, and CS 733 or CS 432.

EGG 795 - Special Topics Credits 3
Directed research course under the supervision of a member of the graduate faculty culminating in a written paper. Notes: May be repeated twice with permission of instructor and advisor. Prerequisites: Graduate standing and permission of instructor.

Computer Science

The Department of Computer Science offers programs leading to the Master of Science in Computer Science and the Doctor of Philosophy in Computer Science. Areas of school strength include both theoretical and experimental computer science, especially within such areas as information and network security, internet forensics, real-time algorithms, information retrieval, document analysis, graphics, computational geometry, networking and distributed systems, parallel programming, artificial intelligence, and software engineering.

The distributed computing environment of the College of Engineering is housed in the Thomas T. Beam Engineering Complex. Several hundred modern computing systems are operated for purposes of instruction, experimentation, laboratory instrument control, data acquisition, and research. More than fifty of the systems are in public laboratories accessible to all computer science students. These laboratories contain both Windows and Unix/Linux clients and servers in a variety of modern configurations.

Students can also obtain permission to access the machines of the National Supercomputer Center for Energy and the Environment (NSCEE).

Sidkazem Taghva, Ph.D., Chair
Laxmi Gewali, Ph.D., Graduate Coordinator

Computer Science Faculty

Chair & Graduate Coordinator
Taghva, Sidkazem - Full Graduate Faculty Professor; B.S., Pahlavi University; M.S., University of Kansas; Ph.D., University of Iowa. Rebel since 1987.

Graduate Faculty
Bein, Wolfgang - Full Graduate Faculty Professor; M.S., Ph.D., University of Osnabruck. Rebel since 1998.
Berghel, Hal - Full Graduate Faculty Professor; B.A., M.A., Ph.D., University of Nebraska, Lincoln. Rebel since 1999.
Gewali, Laxmi P. - Full Graduate Faculty Professor; B.S., Gauhati University, India; M.S., Tribhuwan University, Nepal; M.S., Ph.D., University of Texas-Dallas. Rebel since 1989.
Jo, Juyeon - Full Graduate Faculty Associate Professor; B.S., Dongguk University, Korea; M.S., University of Connecticut; Ph.D., Case Western Reserve University. Rebel since 2006.
Kim, Yooohwan - Full Graduate Faculty Associate Professor; B.A., Seoul National University, Korea; M.S., Ph.D., Case Western Reserve University. Rebel since 2004.
Larmore, Lawrence L. - Full Graduate Faculty Professor; B.S., Tulane University; Ph.D., Northwestern University; Ph.D., University of California, Irvine. Rebel since 1994.
Minor, John T. - Full Graduate Faculty Associate Professor; B.A., Rice University; Ph.D., University of Texas, Austin. Rebel since 1985.
Nasoz, Fatma - Full Graduate Faculty Assistant Professor; B.S., Bogazici University; M.S., University of Central Florida; Ph.D., University of Central Florida. Rebel since 2006.
Pederssen, Jan B. - Full Graduate Faculty Associate Professor; B.S., M.S., University of Aarhus, Denmark; Ph.D., University of British Columbia. Rebel since 2003.
Stefik, Andreas - Full Graduate Faculty Associate Professor; B.A., Central Washington University; M.S., Washington State University; Ph.D., Washington State University. Rebel since 2013.

Yfantis, Evangelos A. - Full Graduate Faculty Professor; B.S., University of Athens; M.S., Fairleigh Dickinson University; M.S., Rutgers University; M.S., New Jersey Institute of Technology; Ph.D., University of Wyoming. Rebel since 1979.

Yang, Jisoo - Full Graduate Faculty Assistant Professor; B.S., Seoul National University; M.S., University of Michigan; Ph.D., University of Michigan. Rebel since 2015.

Zhan, Justin - Full Graduate Faculty Professor; B.S., Liaoning University; M.S., Syracuse University; Ph.D., University of Ottawa. Rebel since 2015.

Doctor of Philosophy - Computer Science

Plan Description
The Ph.D. degree is awarded to a candidate who has demonstrated breadth of knowledge in computer science in general and has displayed depth of knowledge in the area of specialty as well as the ability to make original contributions to the body of knowledge in this field.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Applicants for admission to the Ph.D. program in computer science must meet the following:

1. A GPA of 3.70 (on a 4.00 scale) or higher in post-baccalaureate course work is required for admission. Students entering with a bachelor’s degree must have a GPA of 3.5 or higher for the courses at the 200-level or above.

2. Students are expected to have a master’s degree in computer science before applying to the Ph.D. program. On rare occasions, an unusually capable student may be admitted to work directly for the Ph.D. degree without having a master’s degree.

3. At least three letters of recommendation (preferably from academic sources) attesting to the applicant’s professional competence and academic potential are required.

4. A personal statement of purpose, which should be as specific as possible and should include the applicant’s objectives and area(s) of interest, is required.

5. A minimum score of 315 on the general test of the Graduate Record Examination (GRE) is required. Official score reports from the last five years are acceptable.

Additional information for the Integrated BS-PhD degree program:

1. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree.

2. The GRE requirement is waived for students participating in the Integrated BS-MS track.

The following conditions must be met to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Computer Science program is required.

2. Applications are normally submitted with two semesters remaining in the senior year.

3. A minimum of 90 credit hours of course work applicable to the B.S. of Computer Science degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.

4. Student have to choose the thesis option in the MS degree. Students interested in this program and who also meet the credentials listed above should request a letter of nomination from a Computer Science faculty member. Submit this letter along with a short resume (no more than 2 pages) and an application form to the main office of the department of Computer Science. The materials will be evaluated by the Graduate committee.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1: Post-Master’s Track
Subplan 2: Post-Bachelor’s Track
Subplan 3: Integrated BS-PhD Track

Subplan 1 Requirements: Post-Master’s Track
Total Credits Required: 48

Course Requirements

Required Courses – Credits: 30
Complete 30 credits of 600- or 700-level Computer Science (CS) courses.

Dissertation – Credits: 18
- CS 799 - Dissertation Research

Degree Requirements

1. A student entering the Ph.D. program with a master’s degree in computer science is required to take at least 48 credits of coursework.
2. At least 24 credits must be in computer science (excluding dissertation).

3. A minimum of 12 credits of 700-level Computer Science courses (excluding CS 791, CS 795, CS 798, CS 799).

4. A maximum of 12 credits of 600-level Computer Science courses.

5. A maximum of 6 credits of 600/700 level non-Computer Science courses (with departmental approval).

6. A Ph.D. student can take at most 9 credits per semester from a combination of CS 795, CS 798, CS 799 and any other course. During the summer a Ph.D. student can take at most 9 credits overall, not per summer session, from a combination of CS 795, CS 798, CS 799, and any other course.

7. Satisfactorily pass a written comprehensive examination within the first four semesters.
   1. The written comprehensive examination will be given twice a year. The comprehensives will assess the student’s breadth of knowledge through examinations covering the six Core Areas listed below:
      1. Automata and formal languages
      2. Algorithms and data structures
      3. Programming languages
      4. Compiler construction
      5. Computer architecture
      6. Operating systems
   2. A syllabus will be published well in advance of the exams listing the topics to be covered in each exam. Students are expected to take the comprehensive examination within two years of entering the Ph.D. program. All Ph.D. students are urged to take this examination as early as possible. Preference is given in the allocation of student financial support to those who have passed the comprehensive examination. The comprehensive examination may be attempted at most twice. Students who do not pass the comprehensive examination the first time must retake the examination at the next scheduled offering. Failure to pass the comprehensive examination after two attempts will normally lead to dismissal from the Ph.D. program. After passing the comprehensive examination, a research topic of mutual interest to the student and his/her proposed committee is selected. At this point, the student formally begins his/her research study.

8. The qualifying examination is an oral examination designed to test the depth of the student’s knowledge in his or her area of research specialization.
   1. It must be taken before either:
      1. Two years after passing the comprehensive examination or
      2. Four years after entering the Ph.D. program.
   2. The student’s Ph.D. committee must conduct the examination. This committee consists of five faculty members of whom one must be from outside the Department of Computer Science. The student’s advisor is the chairperson of this committee. Please see Graduate College policy for committee appointment guidelines.
   3. The student must prepare a dissertation proposal before taking this examination. The student’s advisor should have already approved this proposal. This proposal must be given to the Ph.D. committee members at least two weeks before the date of the qualifying exam. The proposal must contain a discussion of the background literature on the problem area, description of the specific topic of research proposal approach, feasibility arguments, the objective of the research project, and a list of references.
   4. The student begins the exam with a presentation of the dissertation proposal. The remaining time is used for discussion and asking questions to determine if the student has sufficient depth of knowledge to carry out the proposed research.
   5. The examination cannot be taken more than twice. After successful completion of the qualifying examination, the student is advanced to candidacy for the doctoral degree.
   1. Satisfactorily pass a dissertation proposal defense by the end of year 4.
   2. The candidate must prepare a dissertation on his or her research. The doctoral dissertation should represent a significant original research contribution to the field of computer science and be publishable in a recognized refereed journal.
3. After completion of the dissertation, the candidate must pass a final oral defense of his/her dissertation. The candidate must make the final changes, if any, in the dissertation within three months from the date of the oral defense. A candidate can defend the dissertation no more than twice. Each member of the committee must approve the final dissertation.

4. Maintain a satisfactory rate of progress and a yearly progress report must be submitted. To maintain satisfactory progress in the Ph.D. program a student must:
   1. Pass the comprehensive examination within 4 semesters of entering the Ph.D. program.
   2. Maintain a minimum grade point average required by the College of Engineering.
   3. Pass the qualifying examination within four years of entering the Ph.D. program.
   4. Maintain satisfactory progress towards research.
   5. Students who enter the Ph.D. program with a master’s degree must complete all requirements for the Ph.D. degree within six years. If these requirements are not met, the department may place the student on academic probation or drop him/her from the Ph.D. program.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Degree Requirements

1. Complete a minimum of 72 credits of coursework with a minimum GPA of 3.00.

2. At least 42 credits must be in computer science (excluding dissertation).

3. A minimum of 12 credits of 700-level Computer Science courses (excluding CS 791, CS 795, CS 798, CS 799)

4. A maximum of 12 credits of 600-level Computer Science courses.

5. A maximum of 6 credits of 600/700 level non-Computer Science courses (with departmental approval).

6. A Ph.D. student can take at most 9 credits per semester from a combination of CS 795, CS 798, CS 799 and any other course. During the summer a Ph.D. student can take at most 9 credits overall, not per summer session, from a combination of CS 795, CS 798, CS 799, and any other course.

7. Satisfactorily pass a written comprehensive examination within the first four semesters.

   1. The written comprehensive examination will be given twice a year. The comprehensives will assess the student’s breadth of knowledge through two examinations covering the six Core Areas listed below:
      1. Automata and formal languages
      2. Algorithms and data structures
      3. Programming languages
      4. Compiler construction
      5. Computer architecture
      6. Operating systems

   2. A syllabus will be published well in advance of the exams listing the topics to be covered in each exam. Students are expected to take the comprehensive examination within two years of entering the Ph.D. program. All Ph.D. students are urged to take this examination as early as possible. Preference is given in the allocation of student financial support to those who have passed the comprehensive examination. The comprehensive examination may be attempted at most twice. Students who do not pass the comprehensive examination the first time must retake the examination at the next scheduled offering. Failure to pass the comprehensive examination after two attempts will normally lead to dismissal from the Ph.D. program. After passing the comprehensive examination, a research topic of mutual interest to the student and his/her proposed committee is selected. At this point, the student formally begins his/her research study.

Subplan 2 Requirements: Post-Bachelor’s Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 54

Complete 54 credits of 600- or 700-level Computer Science (CS) courses.

Dissertation – Credits: 18

- CS 799 - Dissertation Research
8. The qualifying examination is an oral examination designed to test the depth of the student’s knowledge in his or her area of research specialization.
   1. It must be taken before either:
      1. Two years after passing the comprehensive examination or
      2. Four years after entering the Ph.D. program.
   2. It generally focuses on his/her dissertation proposal. The main purpose of this exam is to evaluate the technical merits and feasibility of the student’s proposal for his/her Ph.D. dissertation.
   3. The student’s Ph.D. committee must conduct the examination. This committee consists of five faculty members of whom one must be from outside the Department of Computer Science. The student’s advisor is the chairperson of this committee. Please see Graduate College policy for committee appointment guidelines.
   4. The student must prepare a dissertation proposal before taking this examination. The student’s advisor should have already approved this proposal. This proposal must be given to the Ph.D. committee members at least two weeks before the date of the qualifying exam. The proposal must contain a discussion of the background literature on the problem area, description of the specific topic of research proposal approach, feasibility arguments, the objective of the research project, and a list of references.
   5. The student begins the exam with a presentation of the dissertation proposal. The remaining time is used for discussion and asking questions to determine if the student has sufficient depth of knowledge to carry out the proposed research.
   6. The examination cannot be taken more than twice. After successful completion of the qualifying examination, the student is advanced to candidacy for the doctoral degree.

3. After completion of the dissertation, the candidate must pass a final oral defense of his/her dissertation. The candidate must make the final changes, if any, in the dissertation within three months from the date of the oral defense. A candidate can defend the dissertation no more than twice. Each member of the committee must approve the final dissertation.

4. Maintain a satisfactory rate of progress and a yearly progress report must be submitted. To maintain satisfactory progress in the Ph.D. program a student must:
   1. Pass the comprehensive examination within 4 semesters of entering the Ph.D. program.
   2. Maintain a minimum grade point average required by the College of Engineering.
   3. Pass the qualifying examination within four years of entering the Ph.D. program.
   4. Maintain satisfactory progress towards research.
   5. Those who enter the Ph.D. program with a bachelor’s degree must complete all requirements for the Ph.D. degree within eight years. If these requirements are not met, the department may place the student on academic probation or drop him/her from the Ph.D. program.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: BS-PhD Integrated Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 45-51
Complete 45-51 credits of 600- or 700- level Computer Science (CS) courses.

Dissertation – Credits: 18
- CS 799 - Dissertation Research
Degree Requirements

1. Complete a minimum of 72 credits of coursework with a minimum GPA of 3.00.
2. At least 42 credits must be in computer science (excluding dissertation).
3. A minimum of 12 credits of 700-level Computer Science courses (excluding CS 791, CS 795, CS 798, CS 799)
4. A maximum of 12 credits of 600-level Computer Science courses.
5. A maximum of 6 credits of 600/700 level non-Computer Science courses (with departmental approval).
6. A Ph.D. student can take at most 9 credits per semester from a combination of CS 795, CS 798, CS 799 and any other course. During the summer a Ph.D. student can take at most 9 credits overall, not per summer session, from a combination of CS 795, CS 798, CS 799, and any other course.

7. Satisfactorily pass a written comprehensive examination within the first four semesters.
   1. The written comprehensive examination will be given twice a year. The comprehensives will assess the student’s breadth of knowledge through two examinations covering the six Core Areas listed below:
      1. Automata and formal languages
      2. Algorithms and data structures
      3. Programming languages
      4. Compiler construction
      5. Computer architecture
      6. Operating systems
   2. A syllabus will be published well in advance of the exams listing the topics to be covered in each exam. Students are expected to take the comprehensive examination within two years of entering the Ph.D. program. All Ph.D. students are urged to take this examination as early as possible. Preference is given in the allocation of student financial support to those who have passed the comprehensive examination. The comprehensive examination may be attempted at most twice. Students who do not pass the comprehensive examination the first time must retake the examination at the next scheduled offering. Failure to pass the comprehensive examination after two attempts will normally lead to dismissal from the Ph.D. program. After passing the comprehensive examination, a research topic of mutual interest to the student and his/her proposed committee is selected. At this point, the student formally begins his/her research study.

8. The qualifying examination is an oral examination designed to test the depth of the student’s knowledge in his or her area of research specialization.
   1. It must be taken before either:
      1. Two years after passing the comprehensive examination or
      2. Four years after entering the Ph.D. program.
   1. It generally focuses on his/her dissertation proposal. The main purpose of this exam is to evaluate the technical merits and feasibility of the student’s proposal for his/her Ph.D. dissertation.
   2. The student’s Ph.D. committee must conduct the examination. This committee consists of five faculty members of whom one must be from outside the Department of Computer Science. The student’s advisor is the chairperson of this committee. Please see Graduate College policy for committee appointment guidelines.
   3. The student must prepare a dissertation proposal before taking this examination. The student’s advisor should have already approved this proposal. This proposal must be given to the Ph.D. committee members at least two weeks before the date of the qualifying exam. The proposal must contain a discussion of the background literature on the problem area, description of the specific topic of research proposal approach, feasibility arguments, the objective of the research project, and a list of references.
   4. The student begins the exam with a presentation of the dissertation proposal. The remaining time is used for discussion and asking questions to determine if the student has sufficient depth of knowledge to carry out the proposed research.
   5. The examination cannot be taken more than twice. After successful completion of the qualifying examination, the student is advanced to candidacy for the doctoral degree.

1. Satisfactorily pass a dissertation proposal defense by the end of year 4.
2. The candidate must prepare a dissertation on his or her research. The doctoral dissertation should represent a significant original research contribution to the field of computer science and be publishable in a recognized refereed journal.
3. After completion of the dissertation, the candidate must pass a final oral defense of his/her dissertation. The candidate must make the final changes, if any, in the dissertation within three months from the date of the oral defense. A candidate can defend the dissertation no more than twice. Each member of the committee must approve the final dissertation.

4. Maintain a satisfactory rate of progress and a yearly progress report must be submitted. To maintain satisfactory progress in the Ph.D. program a student must:
   1. Pass the comprehensive examination within 4 semesters of entering the Ph.D. program.
   2. Maintain a minimum grade point average required by the College of Engineering.
   3. Pass the qualifying examination within four years of entering the Ph.D. program.
   4. Maintain satisfactory progress towards research.
   5. Those who enter the Ph.D. program with a bachelor’s degree must complete all requirements for the Ph.D. degree within eight years. If these requirements are not met, the department may place the student on academic probation or drop him/her from the Ph.D. program. Students may be released from up to 9 credits of classes towards completion of the M.S. degree as long as the average G.P.A for these classes taken as part of the undergraduate program is a 3.0 or above.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science in Computer Science

Plan Description

Our master’s program gives you the opportunity to study different areas, including:

- Design and analysis of algorithms
- Operating and distributed systems
- Computer architecture and networking
- Computational geometry and robotics
- Computer graphics and image processing
- Programming languages and compiler construction
- Artificial intelligence and expert systems
- Database design, document analysis, and retrieval
- Software engineering

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants must submit the following to the Graduate College:

1. An application and official transcripts of all college level work with a minimum GPA of 3.00.

2. Two letters of recommendation concerning the student’s potential for succeeding in the graduate program.

3. A set of official transcripts.

4. The results of the Graduate Record Examination current to within five years should be sent directly to the department. The preferred minimum score requirement is 297. The GRE requirement is waived for students participating in the Integrated BS-MS track.

5. In addition, applicants must have completed courses and their prerequisites equivalent to our undergraduate Programming Languages (CS 326), Operating Systems (CS 370), Discrete Mathematics II (MATH 351), and Statistical Methods I (STAT 411) with an average grade of B or better.

6. The Computer Science Admission Committee may elect to admit an outstanding applicant who has not satisfied all of the background requirements on a conditional basis.

The student must complete these requirements before full admission to the program is granted.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 1: Post-Master’s Track
Subplan 2: Post-Bachelor’s Track
Subplan 3: Integrated BS-PhD Track
Students who have not completed all the following courses (or equivalent courses) as part of their bachelor’s degree may be required to complete them as a condition of their admission. If taken as part of their master’s degree program, these courses may count toward the 30 credits required.

CS 656 Automata and Formal Languages
CS 677 Analysis of Algorithms
CS 660 Compiler Construction

Additional information about the Integrated BS-MS degree program:

1. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree.
2. The GRE requirement is waived for students participating in the Integrated BS-MS track.

The following conditions must be met to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Computer Science program is required.
2. Applications are normally submitted with two semesters remaining in the senior year.
3. A minimum of 90 credit hours of course work applicable to the B.S. of Computer Science degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.
4. Students have to choose the thesis option in the MS degree. Students interested in this program and who also meet the credentials listed above should request a letter of nomination from a Computer Science faculty member. Submit this letter along with a short resume (no more than two pages) directly to the Department of Computer Science (computerscience.gradcoord@unlv.edu) as well as an application through the Grad Rebel Gateway.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Thesis Track
Subplan 2: Project Track
Subplan 3: Integrated BS-MS Track

Subplan 1 Requirements: Thesis Track
Total Credits Required: 30

Course Requirements

Computer Science Courses – Credits: 24
Complete 24 credits of 600- or 700-level Computer Science (CS) courses. Students may complete up to 3 credits outside of CS. Outside credits must be related to the student’s research area and be approved by the department graduate committee.

Thesis – Credits: 6
- CS 791 - Thesis

Degree Requirements

1. The student must pass at least 30 credits of 600- and 700-level courses with grades of C or better.
2. Students must complete 12 credits of 700-level CS courses (excluding thesis).
3. Courses in which the student earns a grade lower than C cannot be included in his or her program, and the student’s total grade point average (GPA) must be 3.00 or higher while in the program. A student whose GPA falls below 3.00 will be placed on academic probation. That student must have an overall GPA of at least 3.00 by the end of two subsequent semesters; otherwise the student will be separated from the graduate program. A student on probation will not be allowed to register for CS 690, CS 790, CS 791, CS 792, CS 799, or equivalent courses in another department.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. The student must submit a thesis approved by their advisor and thesis committee and conforming to the specifications of the Graduate College and pass a final oral examination covering the thesis and relevant course work.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 2 Requirements: Project Track

Total Credits Required: 30

Course Requirements

Computer Science Courses – Credits: 27
Complete 27 credits of 600- or 700-level Computer Science (CS) courses. Students may complete up to 3 credits outside of CS. Outside credits must be related to the student’s research area and be approved by the department graduate committee.

Project – Credits: 3

· CS 790 - Master’s Project

Degree Requirements

1. The student must pass at least 30 credits of 600- and 700-level courses with grades of C or better.
2. Students must complete 15 credits of 700-level CS courses (excluding the project).
3. Courses in which the student earns a grade lower than C cannot be included in his or her program, and the student’s total grade point average (GPA) must be 3.00 or higher while in the program. A student whose GPA falls below 3.00 will be placed on academic probation. That student must have an overall GPA of at least 3.00 by the end of two subsequent semesters; otherwise the student will be separated from the graduate program. A student on probation will not be allowed to register for CS 690, CS 790, CS 791, CS 792, CS 799, or equivalent courses in another department.
4. In consultation with his/her advisor, a student will organize a project committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. The student must complete a computer science project and a report approved by his/her advisor and his/her project committee and pass a final oral examination over the project and relevant course work.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a master’s project. The student must submit and successfully defend his/her project by the posted deadline. The defense must be advertised and is open to the public.

Subplan 3 Requirements: Integrated BS-MS Track

Total Credits Required: 30

Course Requirements

Required Courses - Credits: 9
Complete the following nine credits or other courses approved by the Graduate Coordinator.

· CS 656 - Automata and Formal Languages
· CS 660 - Compiler Construction
· CS 677 - Analysis of Algorithms

Computer Science Courses – Credits: 15-21
Complete 15-21 credits of 600- or 700-level Computer Science (CS) courses. Students may complete up to 3 credits outside of CS. Outside credits must be related to the student’s research area and be approved by the department graduate committee.

Thesis – Credits: 6

· CS 791 - Thesis

Degree Requirements

1. The student must pass at least 30 credits of 600- and 700-level courses with grades of C or better.
2. Students must complete 12 credits of 700-level CS courses (excluding thesis).
3. Courses in which the student earns a grade lower than C cannot be included in his or her program, and the student’s total grade point average (GPA) must be 3.00 or higher while in the program. A student whose GPA falls below 3.00 will be placed on academic probation. That student must have an overall GPA of at least 3.00 by the end of two subsequent semesters; otherwise the student will be separated from the graduate program. A student on probation will not be allowed to register for CS 690, CS 790, CS 791, CS 792, CS 799, or equivalent courses in another department.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. The student must submit a thesis approved by their advisor and thesis committee and conforming to the specifications of the Graduate College and pass a final oral examination covering the thesis and relevant course work. Students may be released from up to 9 credits of classes towards completion of the M.S. degree as long as the average G.P.A for these classes taken as part of the undergraduate program is a 3.0 or above.
Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted PDF copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 1: Thesis Track
Subplan 2: Project Track
Subplan 3: Integrated BS-MS Track

CS 620 - Human-Computer Interaction Credits 3
Overview of human-computer interaction principles, guidelines, methods, and tools. User research, low-fidelity prototyping, participatory design, usability evaluation, visual design, usability principles, and affordances. Graphical user interface implementation, including design patterns, event handling, widget tool kits, languages, and development environments. Notes: This course is crosslisted with CS 420. Credit at the 600-level requires additional work. Prerequisites: Consent of Instructor

CS 641 - Advanced Internet Programming Credits 2
Advanced Internet programming design and applications including client/server technologies and environment and software, client/server network operating systems, client/server database management systems, data warehousing environments, data mining, basic networking models and protocols, CASE tools, Groupware, Middleware, Internet security, privacy considerations. Notes: This course is crosslisted with CS 441. Credit at the 600-level requires additional work.

CS 641L - Advanced Internet Programming Lab Credits 1
Helps student develop practical skills and learn to apply industry-wide standards and practices for advanced Internet and Internet 2 applications. Notes: This course is crosslisted with CS 441L. Credit at the 600-level requires additional work.

CS 643 - Information Assurance Credits 3
Introduction to the principles of information assurance. Security awareness, Survey of information security technologies, cryptography, management and administration techniques necessary to improve information security and respond to a security breach, survey of threats to information security, privacy in computing, legal and ethical issues relating to information security, and case studies. Same as CS 443

CS 645 - Internet Security Credits 3
Internet security theory and practice, advanced IP concepts, the concepts of stimulus and response in the context of securing a network, network packet and traffic analysis, internet protocol (IP) vulnerabilities, packet filtering, intrusion detection, internet exploits, exploit signatures, internet forensics, network security investigation. Notes: This course is crosslisted with CS 445. Credit at the 600-level requires additional work.

CS 648 - Computer Security Credits 3
Overview of computer security, threats, vulnerabilities and controls. Physical security, computer security policies and implementation plans, and computer forensics including penetration testing and investigation. Management issues. Legal, privacy and ethical issues. Notes: This course is crosslisted with CS 448. Credit at the 600-level requires additional work.

CS 649 - Computer and Network Forensics Credits 3
Basics of Computer Forensics and Network Forensics. How to protect your privacy on the internet: Email, obfuscation, web sites and servers. Encryption, data hiding, and hostile code. Investigating Windows and Unix. File system recovery/analysis and file management in different OSes. Technical and legal issues regarding digital evidence collection and forensics analysis. This course is crosslisted with CS 449. Credit at the 600-level requires additional work. Prerequisites: CS 645 or CS 648

CS 651L - Multimedia Systems Design Lab Credits 1
Helps student develop practical skills and learn to apply industry-wide standards and practices for the design of multimedia systems. Notes: This course is crosslisted with CS 451L. Credit at the 600-level requires additional work.

CS 656 - Automata and Formal Languages Credits 3
Regular expressions. Regular, context-free, and unrestricted grammars. Finite and pushdown automata. Turing machines and the halting problem; introduction to decidability. Notes: This course is crosslisted with CS 456. Credit at the 600-level requires additional work.
CS 657 - Database Management Systems  Credits 3
Concepts and structures necessary for design and implementation of a database management system. Survey of current database management systems and use of a DBMS. Notes: This course is crosslisted with CS 457. Credit at the 600-level requires additional work.

CS 658 - Introduction to Data Mining  Credits 3
Introduction to basic concepts in data mining. Topics include association rule discovery, information extraction, categorization, and clustering. Of particular interest are programming and indexing methods associated with analysis and storage of massive data sets. These include MapReduce, and Locality sensitive hashing. Notes: This course is crosslisted with CS 458. Coursework at the 600-level requires additional work. Prerequisites: Admission to the CSMS or CSPHD programs.

CS 660 - Compiler Construction  Credits 3
Current methods in the design and implementation of compilers. Construction of the components of an actual compiler as a term project. Notes: This course is crosslisted with CS 460. Credit at the 600-level requires additional work.

CS 663 - Computer Architecture  Credits 3
Introduction to computer architecture. Topics include basic computer organization concepts; history and taxonomy of computer architectures; language and software influences on architecture; instruction set design; stack, array, data flow, and database machines; multiprocessor and network architectures; and fault tolerant designs. Notes: This course is crosslisted with CS 463. Credit at the 600-level requires additional work.

CS 665 - Computer Networks I  Credits 3
An introduction to the design and implementation of computer communication networks, their protocols and applications. It covers the technologies and standards in data transmission, telecommunication network architecture, networking hardware, wireless networks, and the basis of the Internet including UDP and TCP as well as a number of application protocols. Notes: This course is crosslisted with CS 465. Credit at the 600-level requires additional work. Prerequisites: CS 370

CS 666 - Computer Networks II  Credits 3
Explores advanced topics in computer networks, the protocols, algorithms, hardware, and performance issues, especially in TCP/IP networks. Details of IP routing algorithms, quality of service, protocol implementation issues, router architecture and types, various TCP versions and their performance, the related telecommunication networks, and wireless technologies are discussed. Notes: This course is crosslisted with CS 466. Credit at the 600-level requires additional work. Prerequisites: CS 665 or CS 465

CS 669 - Introduction to Digital Image Processing  Credits 3
Background and basics of digital image processing. Topics include: the human visual system, image representation, sampling, image mathematics, and geometry, image enhancement, smoothing and sharpening, the fast Fourier transform, and a survey of image restoration methods. Notes: This course is crosslisted with CS 469. Credit at the 600-level requires additional work. Prerequisites: MATH 365 and STAT 411 and CS 117 or CS 135

CS 670 - Networks and Distributed Systems  Credits 3
Explores protocols and experiments with creating and implementing new protocols. In addition, students will be introduced to concepts such as deadlocks in networks/distributed applications, communication in distributed systems (among other RPC/RMI and the client server model in more detail), synchronization, reliability, transparency, and atomicity/transaction semantics. Notes: This course is crosslisted with CS 470. Credit at the 600-level requires additional work.

CS 672 - Software Product Design and Development I  Credits 3
Current techniques in software design presented with emphasis on architecture first development. Introduction to the processes involved in development. Practice architectural design through a series of homework problems. Students work in teams to prepare the architecture for a software product. Notes: This course is crosslisted with CS 672. Credit at the 600-level requires additional work. Prerequisites: CS 326 and CS 370

CS 673 - Software Product Design II  Credits 3
Synthesis (term project) course to involve students, working in teams, in all of the activities necessary to define, model, implement, test, document, and deliver a program product. Students practice Object-Oriented and Component Based development and utilize UML and CASE tools to model the product and document the process. Notes: This course is crosslisted with CS 473. Credit at the 600-level requires additional work. Prerequisites: CS 672 or CS 472

CS 674 - Decision Environments for Software Product Development  Credits 3
Term project course to involve students, working in teams, with all of the activities and tools necessary to measure progress and monitor the development of a software product. Students utilize CASE tools for planning, for requirements management, for configuration management, and for product and process measurement for a product development project. Notes: This course is crosslisted with CS 474. Credit at the 600-level requires additional work. Prerequisites: CS 672 or CS 472

CS 677 - Analysis of Algorithms  Credits 3
Analysis of the time and space complexity of algorithms. Techniques for efficient algorithm design and effect of structure choice on efficiency. Fast algorithms for problems such as set, graph and matrix manipulations, pattern matching, sorting, and storage organization. Exponential time problems and introduction to NP-completeness. Notes: This course is crosslisted with CS 477. Credit at the 600-level requires additional work. Prerequisites: CS 302 and MATH 351

CS 680 - Computer Graphics  Credits 3
Explores advanced topics in computer graphics, graphics hardware, software, and applications. Data structures for graphics; graphics languages, computer-aided design, and three-dimensional graphics. Notes: This course is crosslisted with CS 469. Credit at the 600-level requires additional work. Prerequisites: CS 302 and MATH 365

CS 682 - Artificial Intelligence  Credits 3
Survey of current artificial intelligence technologies: game playing, theorem-proving, natural language processing, pattern recognition, and heuristic programming. Notes: This course is cross listed with CS 482. Credit at the 600 level requires additional work. Prerequisites: CS 302 and PHIL 422

CS 688 - Big Data Analytics  Credits 3
This course provides an introduction to the basic concepts of big data analytics. Topics covered will include: statistical analysis, machine learning, cloud computing, Hadoop, MapReduce, Spark, DataBridge, data privacy, and R language. Notes: This course is crosslisted with CS 488. Coursework at the 600-level requires additional work. Prerequisites: Permission of instructor.

CS 689 - Advanced Computer Science Topics  Credits 3
Undergraduate-level course in advanced topics of computer science, depending upon the interest of faculty and students. Notes: This course is crosslisted with CS 489. Credit at the 600-level requires additional work.

CS 690 - Independent Study  Credits 1-3
Library research and reports on topics of computer science interest. May be repeated for credit with the consent of the Department of Computer Science Notes: This course is crosslisted with CS 490. Credit at the 600-level requires additional work.

CS 715 - Advanced Analysis of Algorithms  Credits 3
Analysis of the complexity and correctness of asymptotically efficient algorithms, including set partitioning, matrix multiplication, integer multiplication and pattern matching algorithms. The theory of NP-completeness; Cook’s theorem and polynomial transformations. Basic NP-complete problems, such as the three-satisfactory, three dimensional matching and Hamiltonian circuit problems. PSPAC completeness results, such as quantified Boolean formulas. Prerequisites: CS 656 and CS 677
CS 733 - Geographic Data Base Systems  Credits 3
Spatial data types and operators: point queries, range queries, translation, rotation, and scaling. Data structures for object representation: arc tree, quadtrees. Commercial data bases vs. spatial data bases: relational, hierarchical, network. Notes: (May not be used to satisfy degree requirements in Computer Science.) Prerequisites: CS 135 or CS 117 or equivalent and STAT 611

CS 740 - Statistical Pattern Recognition  Credits 3
Concepts and formal theoretical structures necessary for design and implementation of a pattern recognition system. Topics include: parametric and non-parametric methods, linear and non-linear classifiers and clustering algorithms. Prerequisites: STA 667, MATH 253 or 265, and CS 302

CS 741 - Structural Pattern Recognition  Credits 3
Survey of advanced pattern recognition techniques. Topics include: graph matching methods, syntactic approaches, neural nets, and context-dependent methods. Prerequisites: CS 656 and CS 677

CS 747 - Cryptography and Information Theory  Credits 3
Cryptography, cryptographic systems, encryption algorithms, cryptographic techniques, access control, lattice model of information flow, flow control mechanisms, inference control mechanisms, mechanisms restricting noise, mechanisms restricting statistics, statistical database models. Prerequisites: CS 370, STAT 411

CS 758 - Computational Geometry  Credits 3
Geometric searching, point location, range searching, convex hull, Graham’s scan, gift wrapping, dynamic convex hull, proximity closest pair, Voronoi diagram, triangulation. Intersection, visibility shortest paths, geometry of rectangles. Prerequisites: CS 677

CS 769 - Advanced Data Base Management  Credits 3
Continuation of CS 632, including normalization of relational data bases using functional and multivalued dependencies. Query processing, query interpretation, query optimization, and methods for implementing and optimizing logic queries. Knowledge data bases, distributed data bases and object-oriented data bases. Prerequisites: CS 657

CS 772 - Software Architecture  Credits 3
Survey of advanced techniques for specifying and designing large software systems. System verification. Reliability and project management. Prerequisites: CS 370, CS 672, and CS 660, or consent of instructor.

CS 780 - Distributed Computing and Algorithms  Credits 3
Methods and algorithms of distributed computing. Topics may include architecture and design goals, formal approaches to distributed computing problems, networks and protocols, models of distributed computing, synchronization and communication, synchronous and asynchronous systems, fault-tolerance and reliability, self-stabilization, distributed algorithms and applications. Prerequisites: CS 370, CS 677

CS 781 - Automated Deduction  Credits 3
Use of computers for forming deductions and proving theorems in symbolic logic covered. Topics include resolution, unification, proof strategies, and equality. Also examines areas of application: problem solving, question answering, program verification, automatic programming and logic programming (Prolog). Prerequisites: CS 682

CS 782 - Expert System Construction  Credits 3
Design, organization, and construction of expert systems. Includes general concepts, characteristics, elements, advantages, and examples of expert systems. Also rule-based knowledge representations, inference techniques, implementation tools and shells, and advanced topics. Prerequisites: CS 682

CS 783 - Genetic Algorithms and Neural Networks  Credits 3
A study of the utility of adaptive methods and their limitations across optimization problems spanning areas of engineering. Topics include genetic algorithms and genetic programming, simulated annealing, tabu search, neural networks, artificial life. Use of software tools for implementations.

CS 787 - Advanced Big Data Analytics  Credits 3
Cutting-edge technologies for big data analytics including various deep learning architecture, and algorithms. Explores specialized neural network architectures for both structured and unstructured big data including text analysis, image recognition, natural language processing, video analysis, gaming and security. Grading: Letter grade

CS 788 - Computational Environmetrics  Credits 3

CS 789 - Topics in Advanced Computer Science  Credits 3 – 24
Graduate-level course in some field of computer science, at advanced level, depending upon the current interest of the staff and the students. Notes: May be repeated with a different subject matter to a maximum of twenty four credits. Prerequisites: Consent of instructor.

CS 790 - Master’s Project  Credits 1 – 3
Research, analysis, and development work towards completion of an approved project. Notes: May be repeated, but only three credits will be applied to the student’s program. Grading: S/F grading only. Prerequisites: Consent of instructor.

CS 791 - Thesis  Credits 3 – 6
Research, analysis, and development work towards completion of an approved project. Notes: May be repeated, but only six credits will be applied to the student’s program. Grading: S/F grading only. Prerequisites: Consent of instructor.

CS 792 - Research Seminar  Credits 1
Oral presentation of assigned articles. Notes: May be repeated to a maximum of four credits. Prerequisites: Consent of instructor.

CS 795 - Directed Research  Credits 3
Supervised research in the doctoral program. May be repeated for a maximum of twelve credits. Prerequisites: Department consent.

CS 798 - Dissertation Proposal  Credits 3
Development of a prospectus. Notes: May be repeated to a maximum of 6 credits. Prerequisites: Department consent.

CS 799 - Dissertation Research  Credits 1 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated but no more than 18 credits will be allowed in the degree. Grading: S/F grading only. Prerequisites: Department consent.

ITE 651 - Managing Big Data and Web Databases  Credits 3
This course will teach the concepts and techniques of databases for real-time web and big data applications. The course will focus primarily on NoSQL, object oriented, and XML databases. Topics include characteristics and significance of NoSQL databases, NoSQL data formats, key and value pairs, basic schema in NoSQL, and table structures and data types. Same as Crosslisted with ITE 451 Notes: Not repeatable beyond 3 credits. Grading: Letter

INF 730 - Human Computer Interaction  Credits 3
Covers the fundamental concepts and techniques for design, implementation, and evaluation of human computer interfaces. Topics include Foundations of Human computer interaction, design and implementation techniques for graphical user interfaces, evaluation techniques, and different interface models. Prerequisites: Consent of instructor.

INF 760 - Advanced Theoretical Foundations of Informatics  Credits 3
Advanced course to cover mathematical methods for information modeling, analysis, and manipulation. Requires various research article reading and discussions. Topics include proof techniques, first-order logic, computability theory, complexity theory, model theory, and statistics. Prerequisites: INF 700
INF 790 - Informatics Project  Credits 3
Advanced project in informatics. Notes: May be repeated for different project topics, but only three credits will be applied to the student’s program. Prerequisites: INF 700 and consent of instructor.

INF 792 - Internship  Credits 3
Supervised internship in business, industry, government, or educational institution providing practical experience to use skills and knowledge acquired in informatics and cognate course work. Prerequisites: INF 700 and consent of instructor.

INF 795 - Independent Study in Informatics  Credits 1-6
Supervised independent work in a topic of Informatics. Notes: May be repeated but no more than 6 credits will be allowed in the degree. Grading: S/F grading only Prerequisites: INF 700 and Instructor consent

INF 799 - Dissertation Research  Credits 1 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated but no more than eighteen credits will be allowed in the degree. Prerequisites: Passing the written comprehensive examination.

Electrical and Computer Engineering

Electrical engineering is the basic and applied research of scientific and mathematical principles to investigate, invent, develop, design, manufacture, and control machines, processes, phenomena, and/or systems. The work of electrical engineers has had and continues to have a direct and vital impact on people’s lives in the fields of environment, energy, defense, homeland security, data security, medicine, space exploration, safety, communication, biology and extending to all types of industrial and manufacturing issues. For example, electrical engineers have been responsible for the creation of electric power and signals at all frequencies and pulse repetition rates, modern electronics, computers, electronic communication systems, modern flight controllers, automated manufacturing, and medical diagnostic tools. An electrical engineering education continues to provide opportunities for solving problems of great social significance and for augmenting the quality of life. The Department of Electrical and Computer Engineering at UNLV has excellent facilities for graduate education and research in electrical engineering. In addition, the Electrical and Computer Engineering faculty is experienced and knowledgeable in many of the electrical engineering disciplines, including communications, computer engineering, control system theory, electromagnetics and optics, electronics, power systems, signal processing, and solid state devices. At UNLV, students have the opportunity to interact effectively with faculty and personnel so that programs and research theses and dissertations can be tailored to their interests.

Biswaajit Das, Ph.D., Chair
Henry Selvaraj, Ph.D., Graduate Coordinator

Electrical and Computer Engineering Faculty

Chair
Das, Biswaajit - Full Graduate Faculty Professor; B.S.E.E., Indian Institute of Technology, Kharagpur; M.S.E.E., Southern Illinois University, Ph.D., Purdue University. Rebel since 2003. Research Interests: Nanotechnology, Nanoscale device fabrication and characterization, Biomedical applications of nanotechnology, Sensors and sensor networks, RF Circuit Design.

Graduate Coordinator
Selvaraj, Henry - Full Graduate Faculty Professor; M.S., Ph.D., Warsaw University of Technology. Rebel since 1994. Research Interests: Digital circuit design; programmable logic devices; logic synthesis; application of logic synthesis techniques in machine learning; data compression and data mining, functional decomposition; PLAs; and FPGAs; multiple valued functions and applications; artificial intelligence and multimedia; microprocessor architecture; and DSP.

Graduate Faculty
Baker, R. Jacob - Full Graduate Faculty Professor; B.S., M.S. University of Nevada Las Vegas, Ph.D. University of Nevada, Reno. Rebel since 2012. Research Interests: Integrated circuit design

Baghzouz, Yahia - Full Graduate Faculty Professor; B.S., M.S., Ph.D., Louisiana State University. Rebel since 1987. Research Interests: Power system harmonics/power quality; computer-aided analysis of electric power systems; solar photovoltaic systems; renewable energy integration with the utility grid.

Harris, Sarah - Full Graduate Faculty Associate Professor; B.S., Brigham Young University; M.S., Ph.D. Stanford University Rebel since 2014. Research Interests: Digital design, computer architecture, embedded systems, informatics.
Jiang, Yingtao - Full Graduate Faculty Professor; B.E., Chongqing University; M.S.E.C.E., Concordia University, Montreal; Ph.D., University of Texas at Dallas. Rebel since 2001. Research Interests: Algorithms, VLSI architectures, and circuit level techniques for the design of DSP, networking and telecommunications systems; computer architectures; computer aided designs; biomedical signal processing, instrumentation, and medical informatics; BioMEMS/BioNEMS; wireless communications and security.

Kachroo, Pushkin - Full Graduate Faculty Professor; B. Tech (Civil Eng), Indian Institute of Technology; MSME, Rice University; Ph.D. University of California at Berkeley, Ph.D. Virginia Polytechnic Institute. Rebel since 2008. Research Interests: Nonlinear and hybrid control systems, intelligent transportation systems, mechatronics, robotics, distributed parameter systems, differential geometric methods, feedback control in e-marketing, and education and learning, bio-dynamics and control, nano-bio transport control and robotics.

Latifi, Shahram - Full Graduate Faculty Professor; B.S., M.S., Teheran University; M.S., Ph.D., Louisiana State University. Rebel since 1989. Research Interests: Computer networks, parallel processing, fault-tolerant computing, data compression.

Morris, Brendan - Full Graduate Faculty Associate Professor; B.S., University of California, Berkeley; Ph.D., University of California, San Diego. Rebel since 2001. Research Interests: Intelligent systems, computer vision, pattern recognition, machine learning, intelligent transportation systems, and intelligent vehicles.

Muthukumar, Venkatesan - Full Graduate Faculty Associate Professor; B.S.E.E., Anna University India; M.S.E.E., Ph.D., Monash University, Australia. Rebel since 2001. Research Interests: Embedded systems, high performance computation on FPGAs, network and system on chips, multi-core and microprocessor systems.

Regentova, Emma - Full Graduate Faculty Professor; M.S.C.E., Ph.D., State Engineering University of Armenia. Rebel since 2001. Research Interests: Classical and applied image processing, image analysis, coding and compression, pattern recognition. Advanced Computer Architectures, Computer Networks.

Saberinia, Ebrahim - Full Graduate Faculty Associate Professor; B.S.E.E., M.S.E.E., Sharif University of Technology; Ph.D., University of Minnesota. Rebel since 2004. Research Interests: Communications; Wireless communication systems and networks; Wireless local, personal and sensor area networks.

Schill, Robert A. - Full Graduate Faculty Professor; B.S.E.E., Milwaukee School of Engineering; M.S.E.E., Ph.D., University of Wisconsin-Madison. Rebel since 1993. Research Interests: Charged particle beams; microwave theory; fiber, traditional and modern optics; plasma physics; electromagnetic fields and material interactions; linear and nonlinear waves; pulsed power; biomedical and environmental applications of electromagnetics and pulse power.

Selvaraj, Henry - Full Graduate Faculty Professor; M.S., Ph.D., Warsaw University of Technology. Rebel since 1994. Research Interests: Digital circuit design; programmable logic devices; logic synthesis; application of logic synthesis techniques in machine learning; data compression and data mining, functional decomposition; PLAs; and FPGAs; multiple valued functions and applications; artificial intelligence and multimedia; microprocessor architecture; and DSP.


Stubberud, Peter - Full Graduate Faculty Professor; B.S., M.S., Ph.D., University of California, Los Angeles. Rebel since 1991. Research Interests: Digital Signal Processing, multidimensional digital signal processing, adaptive signal processing, neural networks, mixed signal VLSI design, data converters.

Sun, Ke-Xun - Full Graduate Faculty Professor; B.S., Peking (Beijing) University; M.S., Nagoya University; Ph.D., Massachusetts Institute of Technology. Rebel since 2012. Research Interests: Security science and engineering, radiation hard III-V semiconductor and devices, micro and nano technology, radiation detection and measurement, ultrafast electronics, optics and nonlinear optical devices, HEDP diagnostics systems, space flight and payload instruments, scientific computing, and image analysis.

Venkat, Rama - Full Graduate Faculty Professor; B.Tech., Indian Institute of Technology; M.S., Ph.D., Purdue University. Rebel since 1989. Research Interests: Electronic Materials and Devices, Device Physics and Modeling and Process Physics and Modeling.

Yang, Mei - Full Graduate Faculty Professor; B.E.C.E., M.E.C.E., University of Electronic Science and Technology of China; Ph.D., University of Texas at Dallas. Rebel since 2004. Research Interests: Computer architectures, computer networks, wireless sensor networks, and embedded systems.

Professors Emeriti

Brogan, William L. Emeritus Professor; B.S.M.E., State University of Iowa; M.S., Ph.D., University of California, Los Angeles. UNLV Emeritus 1990-1998.

McGaugh, Eugene E. Emeritus Professor; B.S., University of Kansas; M.S., University of Missouri; Ph.D., University of Kansas. UNLV Emeritus 1989-2010.
Doctor of Philosophy - Electrical Engineering

Plan Description

The culminating experience in the Ph.D. program in the Department of Electrical and Computer Engineering is centered about developing new knowledge focused around a specific theme embodied in the form of a well-written and orally defended dissertation. The Department of Electrical and Computer Engineering at UNLV offers a number of program options leading to the Ph.D. degree in the Field of Electrical Engineering. Specific major areas of study currently available include: Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices.

Applicants may be admitted to the Electrical Engineering Ph.D Program through one of the following three options: the Post-Master’s Track, the Post-Bachelor’s Track, or the Post-Bachelor’s Integrated BS-PHD Track. The Post-Master’s Track requires the student to have completed a M.S. Degree in Electrical Engineering, Computer Engineering, or a closely related field with thesis before entering the program. The Post-Bachelor’s Track allows undergraduates with outstanding undergraduate backgrounds to enter the Ph.D. program without having to complete a M.S. Degree in Electrical or Computer Engineering. The Post-Bachelor’s Integrated BS-PHD Track allows students who applied up to 9 credits of graduate courses towards their B.S. degrees to complete their Ph.D. in engineering with up to 9 fewer credits than students in the Post-Bachelor’s Track. All requirements leading to a Ph.D. are still required beyond the B.S. Degree in Electrical and Computer Engineering excluding the completion of a Master’s thesis. In conjunction with these options, a dual degree option does exist for candidates simultaneously working towards a Ph.D. degree in Electrical Engineering and a Master of Science degree in Mathematics. This program prepares graduate students with complementing educational components covering electrical engineering and mathematics, which is the basis of all engineering. [Refer to the Dual Degree Doctor of Philosophy – Electrical Engineering and Master of Science – Mathematical Sciences program description.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants are considered on an individual basis. Applicants may be admitted as a regular or provisional status student. Qualified applicants who are not admitted can take graduate courses as a non-degree seeking graduate student. Up to 15 UNLV credits taken as a non-degree seeking graduate student at UNLV can be applied towards a PhD degree program in electrical and computer engineering. Potentially, nine graduate credits taken at another regionally accredited university may be transferred in the PhD degree program at UNLV. At most, only 15 credits of a combination of UNLV and non-UNLV course credits, within the constraints above, may be applied to the PhD program. Courses with a grade less than B (3.0) will not be applied to the PhD program. Further, the courses must not have been or will be applied to different degree program. Note that informal course credits will not be transferred into a PhD degree program. Informal courses such as Graduate Independent Study and Seminar taken as a non-degree seeking student cannot be applied towards a program degree in ECE. Non-degree seeking students can count Electrical & Computer Engineering Graduate Special Topics towards the program degree as long as they adhere to the conditions of the particular program option regarding informal course credits.

To be considered for admission an applicant must:

1. Submit GRE scaled and percentile scores in quantitative, verbal reasoning, and analytical writing to the Department of Electrical and Computer Engineering and have obtained the following minimum relative percentile comparison rank of 75 in the Quantitative section, 20 in the Verbal Reasoning section, and 20 in Analytical Writing. Please note that GRE scores will only be considered valid if taken within five years prior to the time of admission and are recognized by the GRE examination board. Official scores must be obtained from an official GRE provider. The GRE requirement can be waived under the circumstances listed in the GRE Waiver section.

2. Submit a completed application form and official transcripts of all college level work to the Graduate College. Submit an additional set of transcripts of all college-level work directly to the Department of Electrical and Computer Engineering.

3. Submit a one page written statement of purpose indicating the applicant’s interests, motivations, and objectives. In the statement of purpose, the applicant must explicitly identify his/her areas of interest from the following list of areas offered at UNLV in the ECE Department: Communications, Computer Engineering, Control Systems, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices (which includes Nanotechnology). Applicants are required to account for all time beyond the B.S. degree indicating how they have developed professionally. Applicants transferring from other graduate programs without obtaining an M.S. degree must justify why they are leaving that program to join our graduate program. Applicants receiving grades less than B in a graduate course elsewhere may not be admitted to the graduate program without a well justified explanation. Poor performance in course work in the program that the student is transferring from can be a cause for denial of admission. It will be the graduate committee’s discretion whether to allow or deny admission.

4. Submit three letters of recommendation (signed and dated) concerning the applicant’s potential for
succeeding in the graduate program directly to the Department of Electrical and Computer Engineering. Letters of reference may be electronically uploaded in the online admissions application process. If the student received a M.S. degree in electrical or computer engineering at UNLV, then only one letter of recommendation is required, and it must come from the candidate’s faculty advisor who should be the student’s thesis committee chair. If the applicant has attended a university or is currently enrolled in a program beyond the M.S. degree, then at least one letter of recommendation should be solicited from that university or program and two from the university in which the M.S. degree was received. One of the three letters should be written by your thesis advisor commenting on your background and your thesis research. If the applicant has been out of school for an extended period of time, then letters should be solicited from the professional community who can comment on the applicant’s technical background and/or from the applicant’s most recent academic institution. Letters of recommendation written beyond a six-month period prior to applying for admission to our graduate program will not be accepted. Strong letters of recommendation illustrate technical talent and professional accomplishments beyond the grade point average or course grade. The graduate committee is interested in the applicant’s technical, conceptual, verbal, ethical and social skills. The graduate committee is interested in the applicant’s ability to perform research with evidence to substantiate claims made. Note that letters from professors that casually know you will not help you in the admission process.

5. Before international applicants can be considered for admission, the Graduate College requires that all international applicants take the Test of English as a Foreign Language (TOEFL) and obtain a minimum score of 550 or 85 on the Michigan Test. Students whose first language is not English may be required to take and pass the English as a Second Language Placement Test upon arrival at UNLV. If necessary, they will be required to take English as a Second Language (ESL) courses at UNLV.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

7. Application deadlines are February 1st for admission in the fall of the same year and October 1st for admission in the spring of the subsequent year.

Post-Master’s Track

1. Have a Master of Science (M.S.) degree in electrical engineering or computer engineering or a closely related field with an M.S. thesis component. The M.S. thesis must be completed prior to admission. Potential candidates applying to the program based on a course only option or a project option will not be admitted. (Applicants who possess a bachelor’s degree in a closely related discipline, such as physics or mathematics, may be admitted on conditional and/or provisional status. These students will be required to complete certain undergraduate and/or graduate courses before they can attain regular full graduate standing status. The graduate committee determines these courses on an individual basis.)

2. Have a minimum overall grade point average (GPA) of 3.20 (A = 4.00) for their M.S. degree and a 3.00 for their B.S. degree.

Post-Bachelor’s Track:

1. Have a Bachelor of Science (B.S.) degree in electrical engineering or computer engineering or a closely related field. (Applicants who possess a bachelor degree in a closely related discipline, such as physics or mathematics, may be admitted on conditional and/or provisional status. These students will be required to complete certain undergraduate and/or graduate courses before they can attain regular full graduate standing status. The graduate committee determines these courses on an individual basis.)

2. Have a minimum overall grade point average (GPA) of 3.50 (A = 4.00) for their B.S. degree in Electrical or Computer Engineering a closely related field.

Post-Bachelor’s Integrated BS-PHD Track: The Integrated BS-PHD Track program allows UNLV undergraduate students who applied up to 9 credits of UNLV electrical engineering or computer engineering graduate courses towards their UNLV B.S. in Electrical Engineering or Computer Engineering degree to complete their Ph.D. in engineering with up to 9 fewer credits than students in the Post-Bachelor’s Track. All requirements leading to a Ph.D. are still required beyond the B.S. Degree in Electrical and Computer Engineering excluding the completion of a Master’s thesis.

1. Have a minimum overall grade point average (GPA) of 3.5 (A = 4.00) for their B.S. degree in electrical engineering or computer engineering at UNLV.

2. Have completed up to a maximum of 9 credits of formal Graduate College curriculum approved 600/700 level courses (which excludes informal courses such as Graduate Independent Study, Graduate Seminar, and Special Topics) which were applied towards the student’s B.S. degree. Each graduate level course must have been completed with a minimum grade of B (GPA) of 3.2 (A = 4.00).

The GRE entrance requirement will be waived for students entering the Ph.D. program if ALL of the following are satisfied:

1. The candidate receives a MS degree in Electrical and Computer Engineering (ECE) at UNLV.

2. The candidate’s BS GPA equals or exceeds 3.0.

3. The candidate’s MS GPA equals or exceeds 3.6.

4. The candidate shows evidence that a paper pertaining to his/her research has been published in a refereed conference (minimum requirement). A published
article in a refereed journal exceeds this minimum requirement. In all cases, the candidate must be the first author of the publication. Galley proofs along with a letter of acceptance may be used as minimum evidence that a paper will be published.

5. The candidate is not seeking a teaching assistantship.

6. One strong letter of recommendation from the major professor indicating the student’s ability for higher education.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Post-Master’s Track
Total Credits Required: 45

Course Requirements

Major Field Courses – Credits: 6-15
Complete 6-15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall average GPA of 3.33.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
ECG 781 - Digital Filters
ECG 782 - Multidimensional Digital Signal Processing
ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
ECG 651 - Electronic and Magnetic Materials and Devices
ECG 652 - Optoelectronics
ECG 653 - Introduction to Nanotechnology
ECG 750 - Photonics
ECG 752 - Physical Electronics
ECG 753 - Advanced Topics in Semiconductor Devices I
ECG 755 - Monolithic Integrated Circuit Fabrication
ECG 756 - Advanced Topics in Semiconductor Devices II
ECG 757 - Electron Transport Phenomena in Solid State Devices
ECG 758 - Numerical Methods in Engineering

Minor Fields Courses – Credits: 6-18
Select two advisor-approved minor fields and complete coursework in each single area totaling 6-18 credits, with a minimum overall average GPA of 3.33. The secondary minor can be from a field outside Electrical Engineering.

Communications
ECG 662 - Digital Communication Systems
ECG 666 - Wireless and Mobile Communication Systems
ECG 760 - Random Processes in Engineering Problems
ECG 762 - Detection and Estimation of Signals in Noise

Computer Engineering
ECG 600 - Computer Communication Networks
ECG 604 - Modern Processor Architecture
ECG 605 - Data Compression Systems
ECG 607 - Biometrics
ECG 608 - Digital Design Verification and Testing
ECG 609 - Embedded Digital Signal Processing
ECG 617 - Internet of Things Systems
ECG 700 - Advanced Computer System Architecture
ECG 701 - Reliable Design of Digital Systems
ECG 702 - Interconnection Networks for Parallel Processing Applications
ECG 704 - Coding with Applications in Computers and Communication Media
ECG 706 - Analysis of Telecommunication and Data Networks

Control Systems Theory
ECG 770 - Linear Systems
ECG 771 - Optimal and Modern Control
ECG 772 - Nonlinear Systems
ECG 774 - Stochastic Control
ECG 776 - Adaptive Control

Electromagnetics and Optics
ECG 630 - Transmission Lines
ECG 631 - Engineering Optics
ECG 632 - Antenna Engineering
ECG 633 - Active and Passive Microwave Engineering
ECG 730 - Advanced Engineering Electromagnetics I
ECG 731 - Theoretical Techniques in Electromagnetics
ECG 732 - Advanced Engineering Electromagnetics II
ECG 733 - Plasma I

Electronics
ECG 620 - Analog Integrated Circuit Design
ECG 621 - Digital Integrated Circuit Design
ECG 720 - Advanced Analog IC Design
ECG 721 - Memory Circuit Design
ECG 722 - Mixed-Signal Circuit Design

Power Engineering
ECG 642 - Power Electronics
ECG 646 - Photovoltaic Devices and Systems
ECG 740 - Computer Analysis Methods for Power Systems
ECG 741 - Electric Power Distribution System Engineering
ECG 742 - Power System Stability and Control
ECG 743 - Smart Electrical Power Grid

Signal Processing
ECG 680 - Discrete-Time Signal Processing
ECG 760 - Random Processes in Engineering Problems
ECG 762 - Detection and Estimation of Signals in Noise
ECG 781 - Digital Filters
ECG 782 - Multidimensional Digital Signal Processing
ECG 783 - Adaptive Signal Processing with Neural Networks
Degree Requirements

Dissertation – Credits: 18
- ECG 799 - Dissertation

Elective Courses – Credits: 0-15
Complete 0-15 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Degree Requirements

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Complete a minimum of 27 credits of graduate level courses (excluding dissertation credits) with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class applied towards the 27 credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

3. Of the 27 required credits, a minimum of 18 credits must be in 700-level courses. Of these 18 credits, a minimum of 15 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

4. No more than 3 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 6 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

5. Beyond the Bachelor degree, a Ph.D. student must complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in the major field. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

6. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

7. At the time of admission or no later than the first semester, the Ph.D. candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the Ph.D. program.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.2, who do not maintain a minimum GPA of 3.2 each semester, or who earn more than one grade below B- will be placed on academic probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee in conjunction with the Graduate College will determine the terms of the student’s probation based upon the student’s academic record and in accordance with the rules of the Graduate College.

10. All regular (full graduate standing) status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

11. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are
NOT allowed to take dissertation credits until their prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Bachelor’s Track
Total Credits Required: 69

Course Requirements

Major Field Courses – Credits: 15
Complete 15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall GPA of 3.33. A minimum of 9 credits must be in 700-level courses.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
ECG 652 - Optoelectronics
ECG 653 - Introduction to Nanotechnology
ECG 750 - Photonics
ECG 752 - Physical Electronics
ECG 753 - Advanced Topics in Semiconductor Devices I
ECG 755 - Monolithic Integrated Circuit Fabrication
ECG 756 - Advanced Topics in Semiconductor Devices II
ECG 757 - Electron Transport Phenomena in Solid State Devices
ECG 758 - Numerical Methods in Engineering

Minor Fields Courses – Credits: 18
Select two advisor-approved minor fields and complete 9 credits of coursework in each single area with a minimum overall average GPA of 3.33. A minimum of 6 credits in each area must be in 700-level courses. The secondary minor can be from a field outside Electrical Engineering.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
Degree Requirements

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Complete a minimum of 51 credits (24 M.S.E. credits + 27 Post-Master’s Track credits) of graduate level courses (excluding dissertation credits) with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class applied towards the 27 credits.

3. Of the 51 required credits, a minimum of 33 credits must be in 700-level courses. Of these 33 credits, a minimum of 30 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

4. No more than 6 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 12 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

5. Complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in the major field. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

6. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

7. At the time of admission or no later than the first semester, the Ph.D. candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the Ph.D. program.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Students on academic probation may be transferred to the M.S.E. Program depending on the student’s academic record. In such a case, the M.S.E. Program requirements must be satisfied. For example, only 6 credits of the informal courses may be applied to the M.S.E. Program degree program with the further constraint that up to 3 credits total of Independent Study in combination with Graduate Seminar may be in the 6 credits.

10. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.2, who do not maintain a minimum GPA of 3.2 each semester, or who earn more than one grade below B- will be placed on academic probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

11. All regular status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

12. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and
must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take dissertation credits until their prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s Integrated BS-PHD Track

Total Credits Required: 60-66

Course Requirements

Major Field Courses – Credits: 6-15

Complete 6-15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall GPA of 3.33.

Communications

- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering

- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory

- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics

- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics

- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering

- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing

- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics

- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Minor Fields Courses – Credits: 9-18

Select two advisor-approved minor fields and complete coursework in each single area totaling 9-18 credits, with a minimum overall average GPA of 3.33. The secondary minor can be from a field outside Electrical Engineering.

Communications

- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise

Computer Engineering

- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Electrical Engineering

- ECG 670 - Control Systems Theory
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics

- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics

- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering

- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing

- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics

- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
Degree Requirements

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

3. Complete a minimum of 60, 63, or 66 credits (including dissertation credits) respectively corresponding to 9, 6, or 3 credits of formally approved graduate level courses applied toward the B.S. degree yielding a total of 69 course credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

4. Of the 51 required credits, a minimum of 33 credits must be in 700-level courses. Of these 33 credits, a minimum of 30 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

5. No more than 6 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 12 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

6. Complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

7. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Students on academic probation may be transferred to the M.S.E. Program depending on the student’s academic record. In such a case, the M.S.E. Program requirements must be satisfied. For example, only 6 credits of the informal courses may be applied to the M.S.E. degree program with the further constraint that up to 3 credits total of Independent Study in combination with Graduate Seminar may be in the 6 credits.

10. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.20, who do not maintain a GPA of 3.20 each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

11. All regular status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

12. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and must include an introductory set of sentences, a well-formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies,
Graduation Requirements

See Plan Graduation Requirements below:

Plan Graduation Requirements

1. During the first semester, a Ph.D. student must select a faculty advisor. The faculty advisor does not have to be the one to whom the student was assigned upon entering the Ph.D. program. In coordination with the faculty advisor, the student must also form a doctoral advisory committee. A doctoral advisory committee is composed of at least four members of the UNLV Graduate Faculty. Three of the faculty must be from the Department of Electrical and Computer Engineering. The fourth from a relevant supporting field having Full Graduate Faculty Status as recognized by the Graduate College.

2. Students admitted on provisional and/or conditional status are not allowed to take the qualifying exam until their provisions and/or conditions have been met. Students taking the exam while on provisional or conditional status will be required to retake the exam regardless if one or all areas of the exam have been passed.

3. Provisional status students must complete all required supplementary work within one calendar year from the time of admission into the program with a grade of B (3.0) or better in each course.

4. Pass the Qualifying Exam within 2 semesters of being admitted to the Ph.D. program on a regular (full graduate standing) status. The Qualifying Exam is offered once every fall semester and once every spring semester. This exam cannot be taken more than twice.

   a. The Qualifying Exam tests the student’s general undergraduate knowledge of electrical engineering and computer engineering. To register for the Qualifying Exam, eligible students must notify the graduate coordinator no later than one month prior to the examination date.

   b. All students must pass the Qualifying Exam within the first two semesters (excluding the summer semester) upon being admitted to the Ph.D. program on a regular status. If a student is required to take the qualifying exam and is not present to sit the exam, an automatic FAIL is assigned. Students who have not passed the Qualifying Exam within this time frame will be terminated from the Ph.D. program. Students who have not passed the Qualifying Exam by their second attempt will be terminated from the Ph.D. program. Students in the Direct Ph.D. program who fail the Qualifying Exam on their second attempt within the two semester time frame may elect to pursue a M.S. Degree by completing all of the requirements listed for that degree.

   c. The Qualifying Exam is a four and one-half hour exam covering questions in the following undergraduate electrical and computer engineering fields:

      i. Communications
      ii. Control System Theory
      iii. Electromagnetics and Optics
      iv. Electronics
      v. Power
      vi. Signal Processing
      vii. Solid State
      viii. Digital Logic Design
      ix. Computer Architectures and Organization
      x. Digital Electronics and VLSI Design
      xi. Computer Communication Networks

   d. To pass the qualifying exam requirement, the student must successfully complete any four of the eleven areas with a grade of PASS to complete the qualifying exam requirement within two sittings. If the student passes less than four areas on the first attempt, the student will receive a PASS for those individual areas successfully completed and will not be required to retake these areas on the second attempt. The exam is a closed note, closed book exam.

   e. For more details on course specifics, exam logistics, appeal rights and procedure, and protocols regarding the qualifying exam, refer to the ECE department’s Electrical Engineering Graduate Program Document.

5. In all Post-Bachelor’s Tracks, a Ph.D. student must complete a minimum of 15 credits in an approved ECE major field in a single area of Electrical and Computer Engineering, 9 credits in an approved ECE minor field (primary minor) in a single but different area of Electrical and Computer Engineering, and another 9 credits in a second approved minor (secondary minor) field. Currently, the Department of Electrical and Computer Engineering at UNLV offers Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and...
Solid State Materials and Devices as major fields. Specific courses that can be applied to specific fields are listed in detail in the Electrical Engineering Graduate Program Document.

a. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. To complete the ECE major field requirement, the applied 15 credits of ECE major course work must attain a minimum overall GPA of 3.33 (B+=3.30).

b. Each student must complete two minor fields. To complete a minor field, a student must complete a minimum of 9 credits in a minor field and have an overall minimum GPA of 3.33 (B+=3.30) for the 9 minor field credits. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. Courses that can be applied to specific minor fields are listed in detail in the Electrical Engineering Graduate Program Document. These courses may be applied to any designated field but may only be counted once. With the written approval of the major advisor and the student’s advisory committee, the secondary minor may be a mixed minor field. A mixed minor field may be formed with courses inside and/or outside of the Electrical Engineering Department’s approved fields (e.g., mathematics and physics, computer engineering and computer science, physics, mechanical engineering, solid state and electromagnetics) A mixed minor may not be composed of courses in the Electrical Engineering Department that satisfy course work in the major and the other minor field. The only exception is when a course may be used in more than one field. In this case, the course may not be counted twice but may be used for either minor area. However, the student must complete at least one minor field (primary minor field) in Electrical Engineering in a single area.

1. After passing the Qualifying Exam, successfully completing all courses for a major field, and successfully completing all courses for the ECE minor field, students are eligible to take the Comprehensive Exam. All students must have passed the Comprehensive Exam within two semesters after successfully completing all required course work except for the 18 credits Dissertation. [NOTE: Up to 6 credits of Dissertation taken prior to the successful completion of the Preliminary Exam may count towards the degree program.] The Comprehensive Exam cannot be taken more than once per semester and cannot be taken more than twice.

a. The Comprehensive Exam tests the candidate’s depth of knowledge in the candidate’s chosen ECE major field and chosen ECE minor (primary minor) field. All students must have passed the Comprehensive Exam within two semesters after successfully completing all required course work (except for the 18 credits of Dissertation). The Comprehensive Exam is offered once every fall semester and once every spring semester. The Comprehensive Exam cannot be taken more than twice. Candidates who have not passed the Comprehensive Exam within this time frame (two consecutive settings) will be terminated from the Ph.D. program. Candidates who have not passed the Comprehensive Exam following their second attempt will be terminated from the Ph.D. program.

b. Before a student is eligible to register for the Comprehensive Exam, the candidate must have obtained regular (full graduate standing) admission status, passed the Qualifying Exam, and must have successfully completed all of the course requirements for the ECE major field and the ECE minor (primary minor) field. The student must have acquired a minimum GPA of 3.33 in both the major and minor fields separately. If the minor field GPA is less than 3.33 and/or the major field GPA is less than 3.33, then the minor and/or minor field requirement has not been successfully completed. The candidate will not be allowed to take the Comprehensive Exam until both the major and minor 3.33 GPA requirements are fulfilled. Further, the student must have a minimum overall GPA of 3.2 and must have satisfied all other Ph.D. degree program admission requirements. If a student takes the Comprehensive Exam before any one of these requirements has been satisfied, the student will automatically receive a FAIL grade for the exam. At their discretion, the Graduate Committee may also count this failing grade as one of the student’s attempts for the Comprehensive Exam. To register for the Comprehensive Exam, eligible students must notify the graduate coordinator no later than one month prior to the examination date.

c. To pass the Comprehensive Exam, a student must pass a five-hour exam covering courses in his/her ECE major field and ECE minor (primary minor) field. A pass or fail grade will be given for the exam. The graduate committee will notify students of the results of the exam. The major and minor area exam will emphasize graduate coursework taken in the ECE major and ECE minor (primary minor; minor 1) fields. The exam will evaluate the student’s ability to apply his/her theoretical
and analytical abilities to problems in his/her ECE major and ECE minor (primary minor) field. However, the exam may require knowledge of undergraduate material related to the student’s major and minor fields. Students should expect problems that require advanced thinking. Specific problems need not be familiar textbook problems nor may the student be necessarily familiar with the problem. A pass or fail grade will be given for the exam. The graduate committee will notify students of the exam results.

d. For more details on course specifics, exam logistics, appeal rights and procedure, and protocols regarding the comprehensive exam, refer to the ECE department’s Electrical Engineering Graduate Program Document.

1. After successfully completing all required course work and passing the Comprehensive Exam, the candidate must pass the Preliminary Exam. The Preliminary Exam cannot be taken more than once per semester but may be repeated until passed.

   a. The Preliminary Exam evaluates the caliber of a student’s dissertation topic. The Preliminary Exam cannot be taken more than once per semester but may be repeated until passed.

   b. To be eligible for the Preliminary Exam, a student must have passed the Comprehensive Exam, and have successfully completed all required course work except for the 18 credits of Dissertation.

   c. Before the Preliminary Exam, a student must prepare a 10 to 20-page prospectus of his/her research. A copy of this prospectus must be submitted to the Graduate Committee and each member of the Ph.D. candidate’s advisory committee at least two weeks prior to the Preliminary Exam.

   d. The student must also notify the Graduate Committee and each member of their advisory committee of the date, time, and location of their Preliminary Exam at least two weeks prior to the Preliminary Exam.

   e. During the Preliminary Exam, the student presents his/her prospectus to his advisory committee. To pass the Preliminary Exam, the student’s advisory committee must unanimously approve the student’s prospectus. Students who pass the Preliminary Exam are advanced to candidacy for the Ph.D.

1. Complete a minimum of 18 credits of Dissertation and complete a dissertation containing original research. Upon completion, the student must pass the Final Exam in which the student defends his/her dissertation. The Final Exam is the culminating experience of the PhD program.

   a. The Final Exam evaluates the Ph.D. candidate’s dissertation. The Final Exam cannot be taken more than once per every three months but may be repeated until passed. To be eligible for the Final Exam, a Ph.D. candidate must have passed the Preliminary Exam, and have successfully completed all required coursework including a minimum of 18 credits of Dissertation. A minimum of 12 credits of Dissertation must be taken after the successful completion of the Preliminary Exam. A copy of the Ph.D. candidate’s dissertation must be submitted to the Graduate Committee and each member of the Ph.D. candidate’s advisory committee at least two weeks prior to the Final Exam. The Ph.D. candidate must also notify the Graduate Committee and each member of his/her advisory committee of the date, time, and location of his/her Final Exam at least two weeks prior to the Final Exam. During the Final Exam, the Ph.D. candidate will present his/her dissertation to their advisory committee. To pass the Final Exam, the Ph.D. candidate’s advisory committee must unanimously approve the Ph.D. candidate’s dissertation.

1. The Department of Electrical and Computer Engineering requires that the Ph.D. degree be completed within a period of six years from the time the candidate is fully admitted to the Ph.D. program. Further, courses taken more than six years prior to graduation cannot be applied toward the Ph.D degree without permission from the Graduate College. Students exceeding this time limit must formally write a letter requesting permission from both the Graduate Committee and the Graduate College to stay in the Ph.D. program and apply coursework towards the degree program. The formal letter must explain the circumstances of why the degree was not completed within the allotted time frame and indicate the extended period of time needed to complete the degree.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

3. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

4. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Dual Degree: Doctor of Philosophy - Electrical Engineering & Master of Science - Mathematical Sciences

Plan Description
The dual Ph.D. EE and M.S. MAT program of study is designed for those who want to pursue a Ph.D. degree in Electrical Engineering or a career in Electrical Engineering with emphasis in applied mathematics. The program prepares graduate students with complementing educational components covering electrical engineering and mathematics, which is the basis of all engineering.

The culminating experience in the Ph.D. program in the Department of Electrical and Computer Engineering is centered about developing new knowledge focused around a specific theme embodied in the form a well-written and orally defended dissertation. The Department of Electrical and Computer Engineering at UNLV offers a number of program options leading to the Ph.D. degree in the Field of Electrical Engineering. Specific major areas of study currently available include: Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for each degree can be found below:
- Doctor of Philosophy - Electrical Engineering
- Master of Science - Mathematical Sciences

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Applicants are considered on an individual basis. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Applicants must satisfy the minimum requirements of the Ph.D. – Electrical Engineering program, and the M.S. – Mathematics program. If denied by one program, the applicant will have the option of proceeding with a single degree program with departmental approval.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Post-Master’s Track
Total Credits Required: 69-72

Course Requirements
Total Credits Required for the Mathematical Sciences M.S.: 30-33

Required Courses – Credits: 6
Complete two of the following courses:
- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 765 - Advanced Numerical Analysis

Elective Courses – Credits: 21-24
Students completing the exam option must complete a minimum of 24 credits of MAT or STA elective courses (excluding MAT 711 & 712), and students completing the thesis option must complete a minimum of 21 credits of MAT or STA elective courses (excluding MAT 711 & 712). Other graduate-level courses may be taken with advisor-approval.

Thesis – Credits: 6 (Optional)
Complete 6 credits from one of the following courses:
- MAT 791 - Thesis
- STA 791 - Thesis

Total Credits Required for the Electrical Engineering Ph.D.: 45

Major Field Courses – Credits: 6-15
Complete 6-15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall average GPA of 3.33.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
ECG 700 - Advanced Computer System Architecture
ECG 701 - Reliable Design of Digital Systems
ECG 702 - Interconnection Networks for Parallel Processing Applications
ECG 704 - Coding with Applications in Computers and Communication Media
ECG 706 - Analysis of Telecommunication and Data Networks
ECG 707 - Logic Synthesis Engineering
ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Minor Fields Courses – Credits: 6-18
Select two advisor-approved minor fields and complete coursework in each single area totaling 6-18 credits, with a minimum overall average GPA of 3.33. The secondary minor can be from a field outside Electrical Engineering.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
Control Systems Theory
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Elective Courses – Credits: 0-12
Complete 0-12 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Dissertation – Credits: 18
- ECG 799 - Dissertation

Total Credits Shared: 6
Two courses can be double counted between Electrical Engineering Ph.D. and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Degree Requirements
1. A minimum 69 or 72 credits (including thesis and dissertation credits) is required for the DualElectrical Engineering Ph.D. and Mathematical Sciences M.S. which corresponds to the choice of completing a Mathematics comprehensive exam or thesis.
2. Two of the courses included in the degree program can be double counted in the Electrical Engineering Ph.D. and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Mathematical Sciences M.S.
1. Students completing a thesis must complete a minimum of 33 credit hours with a minimum GPA of 3.00.
2. Students completing the comprehensive exam must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
3. For the master’s degree 21 credits of mathematics course work must be at the 700-level (excluding thesis).

4. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

5. The Graduate College requires a minimum of 50 percent of the total credits required to complete the graduate degree, exclusive of transferred credits and/or the thesis, must be earned at UNLV after admission to a graduate degree program.

6. Students must complete a final examination. This will be either an examination to defend the thesis or a written comprehensive examination based on requirements 1 and 2.

7. If the thesis option is chosen: In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Electrical Engineering Ph.D.

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Complete a minimum of 27 credits of graduate level courses (excluding dissertation credits) with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class applied towards the 27 credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

3. Of the 27 required credits, a minimum of 18 credits must be in 700-level courses. Of these 18 credits, a minimum of 15 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

4. No more than 3 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 6 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

5. Beyond the Bachelor degree, a Ph.D. student must complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in the major field. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

6. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

7. At the time of admission or no later than the first semester, the Ph.D. candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the Ph.D. program.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.2, who do not maintain a minimum GPA of 3.2 each semester, or who earn more than one grade below B- will be placed on academic probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee in conjunction with the Graduate College will determine the terms of the student’s probation based upon the student’s academic record and in accordance with the rules of the Graduate College.

10. All regular (full graduate standing) status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

11. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and must include an introductory set of sentences, a well formed...
hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take dissertation credits until their prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Bachelor’s Track

Total Credits Required: 93-96

Course Requirements

Total Credits Required for the Mathematical Sciences M.S.: 30-33

Required Courses – Credits: 6

Complete two of the following courses:

- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 765 - Advanced Numerical Analysis

Elective Courses – Credits: 21-24

Students completing the exam option must complete a minimum of 24 credits of MAT or STA elective courses (excluding MAT 711 & 712), and students completing the thesis option must complete a minimum of 21 credits of MAT or STA elective courses (excluding MAT 711 & 712). Other graduate-level courses may be taken with advisor-approval.

Thesis – Credits: 6 (Optional)

Complete 6 credits from one of the following courses:

- MAT 791 - Thesis
- STA 791 - Thesis

Total Credits Required for the Electrical Engineering Ph.D.: 69

Major Field Courses – Credits: 15

Complete 15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall GPA of 3.33. A minimum of 9 credits must be in 700-level courses.

Communications

- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks

- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering

- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory

- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics

- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics

- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
· ECG 721 - Memory Circuit Design
· ECG 722 - Mixed-Signal Circuit Design

Power Engineering
· ECG 642 - Power Electronics
· ECG 646 - Photovoltaic Devices and Systems
· ECG 740 - Computer Analysis Methods for Power Systems
· ECG 741 - Electric Power Distribution System Engineering
· ECG 742 - Power System Stability and Control
· ECG 743 - Smart Electrical Power Grid

Signal Processing
· ECG 680 - Discrete-Time Signal Processing
· ECG 760 - Random Processes in Engineering Problems
· ECG 762 - Detection and Estimation of Signals in Noise
· ECG 781 - Digital Filters
· ECG 782 - Multidimensional Digital Signal Processing
· ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
· ECG 651 - Electronic and Magnetic Materials and Devices
· ECG 652 - Optoelectronics
· ECG 653 - Introduction to Nanotechnology
· ECG 750 - Photonics
· ECG 752 - Physical Electronics
· ECG 753 - Advanced Topics in Semiconductor Devices I
· ECG 755 - Monolithic Integrated Circuit Fabrication
· ECG 756 - Advanced Topics in Semiconductor Devices II
· ECG 757 - Electron Transport Phenomena in Solid State Devices
· ECG 758 - Numerical Methods in Engineering

Minor Fields Courses – Credits: 18
Select two advisor-approved minor fields and complete 9 credits of coursework in each single area with a minimum overall average GPA of 3.33. A minimum of 6 credits in each area must be in 700-level courses. The secondary minor can be from a field outside Electrical Engineering.

Communications
· ECG 662 - Digital Communication Systems
· ECG 666 - Wireless and Mobile Communication Systems
· ECG 760 - Random Processes in Engineering Problems
· ECG 762 - Detection and Estimation of Signals in Noise
Graduate Catalog • College of Engineering

Degree Requirements

1. A minimum 93 or 96 credits (including thesis and dissertation credits) is required for the Dual Electrical Engineering Ph.D. and Mathematical Sciences M.S. which corresponds to the choice of completing a Mathematics comprehensive exam or thesis.

2. Two of the courses included in the degree program can be double counted Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Mathematical Sciences M.S.

1. Students completing a thesis must complete a minimum of 33 credit hours with a minimum GPA of 3.00.

2. Students completing the comprehensive exam must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

3. 21 credits of mathematics course work must be at the 700-level (excluding thesis).

4. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

5. The Graduate College requires a minimum of 50 percent of the total credits required to complete the graduate degree, exclusive of transferred credits and/or the thesis, must be earned at UNLV after admission to a graduate degree program.

6. Students must complete a final examination. This will be either an examination to defend the thesis or a written comprehensive examination based on requirements 1 and 2.

7. If the thesis option is chosen: In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Electrical Engineering Ph.D.

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Complete a minimum of 51 credits (24 M.S.E. credits + 27 Post-Master’s Track credits) of graduate level courses (excluding dissertation credits) with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class applied towards the 27 credits.

Signal Processing

- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics

- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

700-Level Elective Courses – Credits: 12
Complete 12 credits of 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Dissertation – Credits: 18
- ECG 799 - Dissertation

Total Credits Shared: 6

Two courses can be double counted between Electrical Engineering Ph.D. and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.
3. Of the 51 required credits, a minimum of 33 credits must be in 700-level courses. Of these 33 credits, a minimum of 30 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

4. No more than 6 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 12 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

5. Complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in the major field. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

6. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

7. At the time of admission or no later than the first semester, the Ph.D. candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the Ph.D. program.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Students on academic probation may be transferred to the M.S.E. Program depending on the student’s academic record. In such a case, the M.S.E. Program requirements must be satisfied. For example, only 6 credits of the informal courses may be applied to the M.S.E. degree program with the further constraint that up to 3 credits total of Independent Study in combination with Graduate Seminar may be in the 6 credits.

10. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.2, who do not maintain a minimum GPA of 3.2 each semester, or who earn more than one grade below B- will be placed on academic probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

11. All regular status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

12. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take dissertation credits until their prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s Integrated BS-PHD Track
Total Credits Required: 84-93

Course Requirements
Total Credits Required for the Mathematical Sciences M.S.: 30-33

Required Courses – Credits: 6
Complete two of the following courses:

- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 765 - Advanced Numerical Analysis

Elective Courses – Credits: 21-24
Students completing the exam option must complete a minimum of 24 credits of MAT or STA elective courses (excluding MAT 711 & 712), and students completing the thesis option must
complete a minimum of 21 credits of MAT or STA elective courses (excluding MAT 711 & 712). Other graduate-level courses may be taken with advisor-approval.

Thesis – Credits: 6 (Optional)
Complete 6 credits from one of the following courses:
- MAT 791 - Thesis
- STA 791 - Thesis

Total Credits Required for the Electrical Engineering Ph.D.: 60-66

Major Field Courses – Credits: 6-15
Complete 6-15 credits of coursework in an approved major in a single area in Electrical and Computer Engineering with a minimum overall GPA of 3.33.

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
ECG 700 - Advanced Computer System Architecture
ECG 701 - Reliable Design of Digital Systems
ECG 702 - Interconnection Networks for Parallel Processing Applications
ECG 704 - Coding with Applications in Computers and Communication Media
ECG 706 - Analysis of Telecommunication and Data Networks
ECG 707 - Logic Synthesis Engineering
ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
ECG 770 - Linear Systems
ECG 771 - Optimal and Modern Control
ECG 772 - Nonlinear Systems
ECG 774 - Stochastic Control
ECG 776 - Adaptive Control

Electromagnetics and Optics
ECG 630 - Transmission Lines
ECG 631 - Engineering Optics
ECG 632 - Antenna Engineering
ECG 633 - Active and Passive Microwave Engineering
ECG 730 - Advanced Engineering Electromagnetics I
ECG 731 - Theoretical Techniques in Electromagnetics
ECG 732 - Advanced Engineering Electromagnetics II
ECG 733 - Plasma I

Electronics
ECG 620 - Analog Integrated Circuit Design
ECG 621 - Digital Integrated Circuit Design
ECG 720 - Advanced Analog IC Design
ECG 721 - Memory Circuit Design
ECG 722 - Mixed-Signal Circuit Design

Power Engineering
ECG 642 - Power Electronics
ECG 646 - Photovoltaic Devices and Systems
ECG 740 - Computer Analysis Methods for Power Systems
ECG 741 - Electric Power Distribution System Engineering
ECG 742 - Power System Stability and Control
ECG 743 - Smart Electrical Power Grid

Signal Processing
ECG 680 - Discrete-Time Signal Processing
ECG 760 - Random Processes in Engineering Problems
ECG 762 - Detection and Estimation of Signals in Noise
ECG 781 - Digital Filters
ECG 782 - Multidimensional Digital Signal Processing
ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
ECG 651 - Electronic and Magnetic Materials and Devices
ECG 652 - Optoelectronics
ECG 653 - Introduction to Nanotechnology
ECG 750 - Photonics
ECG 752 - Physical Electronics
ECG 753 - Advanced Topics in Semiconductor Devices I
ECG 755 - Monolithic Integrated Circuit Fabrication
ECG 756 - Advanced Topics in Semiconductor Devices II
Elective Courses – Credits: 9-18

Complete 9-18 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Dissertation – Credits: 18

- ECG 799 - Dissertation

Two courses can be double counted between Electrical Engineering Ph.D. and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Degree Requirements

1. A minimum of 84, 87, 90, or 93 credits (including thesis and dissertation credits) of graduate work is required for the Dual Electrical Engineering Ph.D. and Mathematical Sciences M.S. which corresponds to the choice of completing a Mathematics comprehensive exam or thesis, and the number of credits of formally approved graduate level courses applied toward the B.S. degree and used in the Electrical Engineering Integrated BS-PHD Track.

2. Two of the courses included in the degree program can be double counted Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Mathematical Sciences M.S

1. Students completing a thesis must complete a minimum of 33 credit hours with a minimum GPA of 3.00.

2. Students completing the comprehensive exam must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

3. 21 credits of mathematics course work must be at the 700-level (excluding thesis).

4. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

5. The Graduate College requires a minimum of 50 percent of the total credits required to complete the graduate degree, exclusive of transferred credits and/or the thesis, must be earned at UNLV after admission to a graduate degree program.

6. Students must complete a final examination. This will be either an examination to defend the thesis or a written comprehensive examination based on requirements 1 and 2.

7. If the thesis option is chosen: In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Electrical Engineering Ph.D.

1. All Ph.D. students must satisfy the Ph.D. degree program admission requirements and be admitted to the Ph.D. program on a regular status.

2. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

3. Complete a minimum of 60, 63, or 66 credits (including dissertation credits) respectively corresponding to 9, 6, or 3 credits of formally approved graduate level courses applied toward the B.S. degree yielding a total of 69 course credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

4. Of the 69 required credits, a minimum of 33 credits must be in 700-level courses. Of these 33 credits, a minimum of 30 must be from formal courses. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study.

5. No more than 6 credits may be from Graduate Independent Study together with Graduate Seminar. No more than 12 credits of a combination of informal courses such as Graduate Independent Study, Special Topics, and Seminar may be applied to the degree program.

6. Complete a minimum of 15 credits in an approved ECE major field, 9 credits an approved ECE minor (primary minor) field, and 9 credits in a second approved open minor (secondary minor) field. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in the major field. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. A minimum GPA of 3.33 (B+=3.30) must be obtained in each of the minor fields.

7. Informal courses (Graduate Independent Study, Graduate Seminar, and Special Topics) cannot be
applied to the ECE major, ECE minor (primary minor) and the open minor (secondary minor) fields.

8. All regular (full graduate standing) status graduate students must select a faculty advisor in their first semester.

9. Students on academic probation may be transferred to the M.S.E. Program depending on the student’s academic record. In such a case, the M.S.E. Program requirements must be satisfied. For example, only 6 credits of the informal courses may be applied to the M.S.E. degree program with the further constraint that up to 3 credits total of Independent Study in combination with Graduate Seminar may be in the 6 credits.

10. Maintain a minimum overall grade point average (GPA) of 3.20, must maintain a minimum GPA of 3.20 each semester, and must complete all graduate level courses that apply towards their degree with a minimum GPA of 2.70 (B-) in each course. Grades below B- cannot be applied towards the Ph.D. degree and must be repeated or replaced. A class grade below C (2.0) is grounds for initiating a program separation recommendation to the Graduate College. Ph.D. candidates who do not maintain an overall minimum GPA of 3.20, who do not maintain a GPA of 3.20 each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

11. All regular status graduate students must file an approved program before the completion of their third semester. This program must be approved by the student’s advisor and the graduate coordinator. All regular and provisional status graduate students must show satisfactory progress towards completion of their degree by completing at least six credits of their approved program per calendar year. If their progress towards their degree program is not satisfactory, students will either be put on probation or expelled from the program.

12. Before beginning a dissertation, students must have their dissertation topic approved by their advisor, and the necessary paper work including a dissertation prospectus must be filed with the Graduate College by the end of the third semester. The dissertation prospectus describes the dissertation topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take dissertation credits until their prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Mathematical Sciences M.S

1. The student must successfully complete a culminating experience.

2. If the exam option is chosen, the student must successfully pass a final comprehensive examination.

3. If the thesis option is chosen, the student must:
   a. Submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
   b. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Electrical Engineering Ph.D.

1. During the first semester, a Ph.D. student must select a faculty advisor. The faculty advisor does not have to be the one to whom the student was assigned upon entering the Ph.D. program. In coordination with the faculty advisor, the student must also form a doctoral advisory committee. A doctoral advisory committee is composed of at least four members of the UNLV Graduate Faculty. Three of the faculty must be from the Department of Electrical and Computer Engineering. The fourth from a relevant supporting field having Full Graduate Faculty Status as recognized by the Graduate College.

2. Students admitted on provisional and/or conditional status are not allowed to take the qualifying exam until their provisions and/or conditions have been met. Students taking the exam while on provisional or conditional status will be required to retake the exam regardless if one or all areas of the exam have been passed.

3. Provisional status students must complete all required supplementary work within one calendar year from the time of admission into the program with a grade of B (3.0) or better in each course.
4. Pass the Qualifying Exam within 2 semesters of being admitted to the Ph.D. program on a regular (full graduate standing) status. The Qualifying Exam is offered once every fall semester and once every spring semester. This exam cannot be taken more than twice.

a. The Qualifying Exam tests the student’s general undergraduate knowledge of electrical engineering and computer engineering. To register for the Qualifying Exam, eligible students must notify the graduate coordinator no later than one month prior to the examination date.

b. All students must pass the Qualifying Exam within the first two semesters (excluding the summer semester) upon being admitted to the Ph.D. program on a regular status. If a student is required to take the qualifying exam and is not present to sit the exam, an automatic FAIL is assigned. Students who have not passed the Qualifying Exam by their second attempt will be terminated from the Ph.D. program. Students in the Direct Ph.D. program who fail the Qualifying Exam on their second attempt within the two semester timeframe may elect to pursue a M.S. Degree by completing all of the requirements listed for that degree.

c. The Qualifying Exam is a four and one-half hour exam covering questions in the following undergraduate electrical and computer engineering fields:

   i. Communications  
   ii. Control System Theory  
   iii. Electromagnetics and Optics  
   iv. Electronics  
   v. Power  
   vi. Signal Processing  
   vii. Solid State  
   viii. Digital Logic Design  
   ix. Computer Architectures and Organization  
   x. Digital Electronics and VLSI Design  
   xi. Computer Communication Networks

d. To pass the qualifying exam requirement, the student must successfully complete any four of the eleven areas with a grade of PASS to complete the qualifying exam requirement within two sittings. If the student passes less than four areas on the first attempt, the student will receive a PASS for those individual areas successfully completed and will not be required to retake these areas on the second attempt. The exam is a closed note, closed book exam.

e. For more details on course specifics, exam logistics, appeal rights and procedure, and protocols regarding the qualifying exam, refer to the ECE department’s Electrical Engineering Graduate Program Document.

5. In all Post-Bachelor’s Tracks, a Ph.D. student must complete a minimum of 15 credits in an approved ECE major field in a single area of Electrical and Computer Engineering, 9 credits in an approved ECE minor field (primary minor) in a single but different area of Electrical and Computer Engineering, and another 9 credits in a second approved minor (secondary minor) field. Currently, the Department of Electrical and Computer Engineering at UNLV offers Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices as major fields. Specific courses that can be applied to specific fields are listed in detail in the Electrical Engineering Graduate Program Document.

a. Of the 15 credits required in the ECE major field, a minimum of 9 credits must be completed in 700-level courses. To complete the ECE major field requirement, the applied 15 credits of ECE major course work must attain a minimum overall GPA of 3.33 (B+=3.30).

b. Each student must complete two minor fields. To complete a minor field, a student must complete a minimum of 9 credits in a minor field and have an overall minimum GPA of 3.33 (B+=3.30) for the 9 minor field credits. Of the 9 required credits in each minor field, a minimum of 6 credits must be in 700-level courses. Courses that can be applied to specific minor fields are listed in detail in the Electrical Engineering Graduate Program Document. These courses may be applied to any designated field but may only be counted once. With the written approval of the major advisor and the student's advisory committee, the secondary minor may be a mixed minor field. A mixed minor field may be formed with courses inside and/or outside of the Electrical Engineering Department’s approved fields (e.g., mathematics and physics, computer engineering and computer science, physics, mechanical engineering, solid state and electromagnetics) A mixed minor may not be composed of courses in the Electrical Engineering Department that
satisfy course work in the major and the other minor field. The only exception is when a course may be used in more than one field. In this case, the course may not be counted twice but may be used for either minor area. However, the student must complete at least one minor field (primary minor field) in Electrical Engineering in a single area.

1. After passing the Qualifying Exam, successfully completing all courses for a major field, and successfully completing all courses for the ECE minor field, students are eligible to take the Comprehensive Exam. All students must have passed the Comprehensive Exam within two semesters after successfully completing all required course work except for the 18 credits of Dissertation. [NOTE: Up to 6 credits of Dissertation taken prior to the successful completion of the Preliminary Exam may count towards the degree program.] The Comprehensive Exam cannot be taken more than once per semester and cannot be taken more than twice.

a. The Comprehensive Exam tests the candidate’s depth of knowledge in the candidate’s chosen ECE major field and chosen ECE minor (primary minor) field. All students must have passed the Comprehensive Exam within two semesters after successfully completing all required course work (except for the 18 credits of Dissertation). The Comprehensive Exam is offered once every fall semester and once every spring semester. The Comprehensive Exam cannot be taken more than twice. Candidates who have not passed the Comprehensive Exam within this timeframe (two consecutive sittings) will be terminated from the Ph.D. program. Candidates who have not passed the Comprehensive Exam following their second attempt will be terminated from the Ph.D. program.

b. Before a student is eligible to register for the Comprehensive Exam, the candidate must have obtained regular (full graduate standing) admission status, passed the Qualifying Exam, and must have successfully completed all of the course requirements for the ECE major field and the ECE minor (primary minor) field. The student must have acquired a minimum GPA of 3.33 in both the major and minor fields separately. If the minor field GPA is less than 3.33 and/or the major field GPA is less than 3.33, then the minor and/or minor field requirement has not been successfully completed. The candidate will not be allowed to take the Comprehensive Exam until both the major and minor 3.33 GPA requirements are fulfilled. Further, the student must have a minimum overall GPA of 3.2 and must have satisfied all other Ph.D. degree program admission requirements. If a student takes the Comprehensive Exam before any one of these requirements has been satisfied, the student will automatically receive a FAIL grade for the exam. At their discretion, the Graduate Committee may also count this failing grade as one of the student’s attempts for the Comprehensive Exam. To register for the Comprehensive Exam, eligible students must notify the graduate coordinator no later than one month prior to the examination date.

c. To pass the Comprehensive Exam, a student must pass a five-hour exam covering courses in his/her ECE major field and ECE minor (primary minor) field. A pass or fail grade will be given for the exam. The graduate committee will notify students of the results of the exam. The major and minor area exam will emphasize graduate coursework taken in the ECE major and ECE minor (primary minor; minor 1) fields. The exam will evaluate the student’s ability to apply his/her theoretical and analytical abilities to problems in his/her ECE major and ECE minor (primary minor) field. However, the exam may require knowledge of undergraduate material related to the student’s major and minor fields. Students should expect problems that require advanced thinking. Specific problems need not be familiar textbook problems nor may the student be necessarily familiar with the problem. A pass or fail grade will be given for the exam. The graduate committee will notify students of the exam results.

d. For more details on course specifics, exam logistics, appeal rights and procedure, and protocols regarding the comprehensive exam, refer to the ECE department’s Electrical Engineering Graduate Program Document.

1. After successfully completing all required course work and passing the Comprehensive Exam, the candidate must pass the Preliminary Exam. The Preliminary Exam cannot be taken more than once per semester but may be repeated until passed.

a. The Preliminary Exam evaluates the caliber of a student’s dissertation topic. The Preliminary Exam cannot be taken more than once per semester but may be repeated until passed.

b. To be eligible for the Preliminary Exam, a student must have passed the Comprehensive Exam, and have successfully completed all required course work except for the 18 credits of Dissertation.
c. Before the Preliminary Exam, a student must prepare a 10 to 20-page prospectus of his/her research. A copy of this prospectus must be submitted to the Graduate Committee and each member of the Ph.D. candidate’s advisory committee at least two weeks prior to the Preliminary Exam.

d. The student must also notify the Graduate Committee and each member of their advisory committee of the date, time and location of their Preliminary Exam. This must be done at least two weeks prior to the Preliminary Exam.

e. During the Preliminary Exam, the student presents his/her prospectus to his advisory committee. To pass the Preliminary Exam, the student’s advisory committee must unanimously approve the student’s prospectus. Students who pass the Preliminary Exam are advanced to candidacy for the Ph.D.

1. Complete a minimum of 18 credits of Dissertation and complete a dissertation containing original research. Upon completion, the student must pass the Final Exam in which the student defends his/her dissertation. The Final Exam is the culminating experience of the PhD program.

a. The Final Exam evaluates the Ph.D. candidate’s dissertation. The Final Exam cannot be taken more than once per every three months but may be repeated until passed. To be eligible for the Final Exam, a Ph.D. candidate must have passed the Preliminary Exam, and have successfully completed all required course work including a minimum of 18 credits of Dissertation. A minimum of 12 credits of Dissertation must be taken after the successful completion of the Preliminary Exam. A copy of the Ph.D. candidate’s dissertation must be submitted to the Graduate Committee and each member of the Ph.D. candidate’s advisory committee at least two weeks prior to the Final Exam. The Ph.D. candidate must also notify the Graduate Committee and each member of his/her advisory committee of the date, time, and location of his/her Final Exam at least two weeks prior to the Final Exam. During the Final Exam, the Ph.D. candidate will present his/her dissertation to their advisory committee. To pass the Final Exam, the Ph.D. candidate’s advisory committee must unanimously approve the Ph.D. candidate’s dissertation.

1. The Department of Electrical and Computer Engineering requires that the Ph.D. degree be completed within a period of six years from the time the candidate is fully admitted to the Ph.D. program. Further, courses taken more than six years prior to graduation cannot be applied toward the Ph.D degree without permission from the Graduate College. Students exceeding this time limit must formally write a letter requesting permission from both the Graduate Committee and the Graduate College to stay in the Ph.D. program and apply coursework towards the degree program. The formal letter must explain the circumstances of why the degree was not completed within the allotted timeframe and indicate the extended period of time needed to complete the degree.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

3. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

4. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

284 Graduate Catalog • College of Engineering
Dual Degree: Master of Science in Engineering - Electrical Engineering & Master of Science - Mathematical Sciences

Plan Description

The dual M.S.E. – Electrical Engineering and the M.S. – Mathematical Sciences program is designed for those who want to pursue the M.S.E. degree in Electrical Engineering or a career in Electrical Engineering with emphasis in applied Mathematics. The program prepares graduate students with complementing educational components covering electrical engineering and mathematics, which is the basis of all engineering. The students graduating from this program will be well-prepared with a well-rounded background.

The Department of Electrical and Computer Engineering at UNLV offers a number of program options leading to the M.S.E. degree in the Field of Electrical Engineering. Specific major areas of study currently available include: Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for each degree can be found below:

- Master of Science in Engineering - Electrical Engineering
- Master of Science - Mathematical Sciences

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Applicants must satisfy the minimum requirements of the M.S.E. – Electrical Engineering program and the MS – Mathematics program. If denied by one program, the applicant will have the option of proceeding with a single degree program with departmental approval.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan I Requirements: Standard Track

Total Credits Required: 54-57

Course Requirements

Total Credits Required for the Mathematical Sciences M.S.: 30-33

Required Courses – Credits: 6

Complete two of the following courses:

- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 765 - Advanced Numerical Analysis

Elective Courses – Credits: 21-24

Students completing the exam option must complete a minimum of 24 credits of MAT or STA elective courses (excluding MAT 711 & 712), and students completing the thesis option must complete a minimum of 21 credits of MAT or STA elective courses (excluding MAT 711 & 712). Other graduate-level courses may be taken with advisor-approval.

Thesis – Credits: 6 (Optional)

Complete 6 credits from one of the following courses:

- MAT 791 - Thesis
- STA 791 - Thesis

Total Credits Required for the Electrical Engineering M.S.E.: 30

Core Courses – Credits: 9

Complete a minimum of 3 credits in at least three of the following areas. Students in the comprehensive exam track must take all courses at the 700-level.

Communications

- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering

- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
ECG 609 - Embedded Digital Signal Processing
ECG 700 - Advanced Computer System Architecture
ECG 701 - Reliable Design of Digital Systems
ECG 702 - Interconnection Networks for Parallel Processing Applications
ECG 704 - Coding with Applications in Computers and Communication Media
ECG 706 - Analysis of Telecommunication and Data Networks
ECG 707 - Logic Synthesis Engineering
ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
  - ECG 672 - Digital Control Systems
  - ECG 770 - Linear Systems
  - ECG 771 - Optimal and Modern Control
  - ECG 772 - Nonlinear Systems
  - ECG 774 - Stochastic Control
  - ECG 776 - Adaptive Control

Electromagnetics and Optics
  - ECG 630 - Transmission Lines
  - ECG 631 - Engineering Optics
  - ECG 632 - Antenna Engineering
  - ECG 633 - Active and Passive Microwave Engineering
  - ECG 730 - Advanced Engineering Electromagnetics I
  - ECG 731 - Theoretical Techniques in Electromagnetics
  - ECG 732 - Advanced Engineering Electromagnetics II
  - ECG 733 - Plasma I

Electronics
  - ECG 620 - Analog Integrated Circuit Design
  - ECG 621 - Digital Integrated Circuit Design
  - ECG 720 - Advanced Analog IC Design
  - ECG 721 - Memory Circuit Design
  - ECG 722 - Mixed-Signal Circuit Design

Power Engineering
  - ECG 642 - Power Electronics
  - ECG 646 - Photovoltaic Devices and Systems
  - ECG 740 - Computer Analysis Methods for Power Systems
  - ECG 741 - Electric Power Distribution System Engineering
  - ECG 742 - Power System Stability and Control
  - ECG 743 - Smart Electrical Power Grid

Signal Processing
  - ECG 680 - Discrete-Time Signal Processing
  - ECG 760 - Random Processes in Engineering Problems
  - ECG 762 - Detection and Estimation of Signals in Noise
  - ECG 781 - Digital Filters
  - ECG 782 - Multidimensional Digital Signal Processing
  - ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
  - ECG 651 - Electronic and Magnetic Materials and Devices
  - ECG 652 - Optoelectronics
  - ECG 653 - Introduction to Nanotechnology
  - ECG 750 - Photonics
  - ECG 752 - Physical Electronics
  - ECG 753 - Advanced Topics in Semiconductor Devices I
  - ECG 755 - Monolithic Integrated Circuit Fabrication
  - ECG 756 - Advanced Topics in Semiconductor Devices II
  - ECG 757 - Electron Transport Phenomena in Solid State Devices
  - ECG 758 - Numerical Methods in Engineering

Additional Core Courses – Credits: 9-12
Complete 9-12 credits of additional core courses from the core courses in any of the areas listed above. Students in the comprehensive exam track must take all courses at the 700-level.

Students completing the comprehensive exam option must complete a minimum of 12 credits of electives, and students completing the thesis option must complete a minimum of 9 credits of electives.

Elective Courses – Credits: 6-9
Complete a minimum of 6-9 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Students completing the comprehensive exam option must complete a minimum of 9 credits of electives, and students completing the thesis option must complete a minimum of 6 credits of electives.

Thesis – Credits: 6 (Optional)
  - ECG 797 - Electrical Engineering Thesis

Total Credits Shared: 6

Two courses can be double counted between Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.
Degree Requirements

1. A minimum of 54 or 57 credits (including thesis credits) of graduate work is required for the Dual Electrical Engineering M.S.E. and Mathematical Sciences M.S. which corresponds to the choice of completing a Mathematics comprehensive exam or thesis.

2. Two of the courses included in the degree program can be double counted Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG electives credits in the electrical engineering degree program pursued.

3. If a thesis option is chosen: In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

Mathematical Sciences M.S.

1. Students completing a thesis must complete a minimum of 33 credit hours with a minimum GPA of 3.00.

2. Students completing the comprehensive exam must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

3. 21 credits of mathematics course work must be at the 700-level (excluding thesis).

4. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

5. The Graduate College requires a minimum of 50 percent of the total credits required to complete the graduate degree, exclusive of transferred credits and/or the thesis, must be earned at UNLV after admission to a graduate degree program.

6. Students must complete a final examination. This will be either an examination to defend the thesis or a written comprehensive examination based on requirements 1 and 2.

Electrical Engineering M.S.E.

1. Students must satisfy the M.S.E. - Electrical Engineering degree program admission requirements and be admitted to the M.S.E. - Electrical Engineering program with regular full graduate standing status, having met all conditions and provisions.

2. Students must complete a minimum of 30 credits of graduate level courses with an overall minimum GPA of 3.00 (B), a minimum GPA of 3.00 (B) each semester, and a minimum GPA of 2.70 (B-) in each class applied towards the 30 credits. Grades below B- are not counted towards the M.S.E. degree and must be repeated or replaced.

3. Students who do not maintain an overall GPA of 3.00 (B), a GPA of 3.00 (B) each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

4. At the time of admission or no later than the first semester, the candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the M.S.E. program.

5. Students must select a faculty advisor in their first semester.

6. No more than 3 credits may be from Independent Study (which cumulatively includes Graduate Seminar) and no more than a total of 6 credits of the combination of Independent Study, Graduate Seminar, and Graduate Special Topics may be applied towards the M.S.E. degree program.

7. Students completing a Thesis:
   1. A minimum of 18 core (formal) must be in core electrical engineering courses, of which 15 credits must be 700-level. This excludes Thesis, and informal courses (such as Special Topics, Graduate Seminar, and Independent Study).

2. Students must complete at least six credits of Electrical Engineering Thesis which culminates in the successful completion of a thesis oral exam and the submission of an approved thesis. Although Electrical Engineering Thesis can be taken repeatedly, no more than 6 credits can be applied towards the 30 credits required for the M.S.E. degree.

3. Before beginning a thesis, students must have their thesis topic approved by their advisor, and the necessary paper work must be filed with the Graduate College. The thesis prospectus describes the thesis topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take
thesis credits until their thesis prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

4. The student must complete a thesis containing original research and publically defend it before his/her advisory committee at the Thesis Exam.

5. Prior to the student’s defense of the thesis before his/her advisory committee, the student must submit a complete copy of the thesis to each member of his/her advisory committee. This submission must occur at least two weeks prior to the date of the oral defense. The student must also notify each member of his/her advisory committee of the date, time and location of the oral defense of the thesis or project at least two weeks in advance.

6. Students who plan to continue their studies beyond the M.S.E. degree program are strongly encouraged to select this option.

7. A full graduate standing master’s degree candidate who is interested in pursuing a doctoral degree may be allowed to take the Ph.D. qualifying exam without penalty during his/her period as an M.S.E. student. The exam may be taken as many times as desired but no more than once a semester at the time the exam is typically offered. The M.S.E. candidate must pass four areas of choice in a single sitting to satisfy the Qualifying Exam requirement. If the student successfully completes the Qualifying Exam requirement while pursuing the M.S.E. degree in Electrical Engineering with a thesis option in the Electrical and Computer Engineering department at UNLV, the student will have automatically fulfilled the Qualifying Exam requirement upon admission to the Ph.D. program in the Electrical and Computer Engineering program at UNLV. Once the student receives an M.S.E. degree in the field of Electrical Engineering, the student must abide by the requirements outlined in the Ph.D. program. This option is not available to non-degree students.

8. Students completing the Comprehensive Exam:

1. A minimum of 21 credits must be in core (formal) electrical engineering 700-level courses excluding informal courses (such as Independent Study, Graduate Seminar, and Special Topics).

2. Pass a comprehensive exam on graduate level coursework in the student’s specialty area.

3. The exam may be taken in the last two semesters of the student’s M.S.E. program.

4. The student may not take the exam until all course work pertaining to the exam is completed. For clarity, students enrolled in courses pertaining to the comprehensive exam cannot take the comprehensive exam. Within the six year limit, the exam may be repeated until passed but cannot be taken more than once per semester. Prior to the end of the first week of classes in the student’s last two semesters, the student must announce to the ECE Graduate Coordinator his/her intention of taking the exam, the major field to be examined, and at least two courses taken in that field.

5. The Course Only Option is a final advanced professional degree option in that students who complete the Course Only Option will not be considered for admission into any of the department’s Ph.D. program options.

Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Mathematical Sciences M.S.

1. The student must successfully complete a culminating experience.

2. If the exam option is chosen, the student must successfully pass a final comprehensive examination.

3. If the thesis option is chosen, the student must:

   1. Submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

   2. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Electrical Engineering M.S.E.

1. The student must successfully complete a culminating experience.
2. If the exam option is chosen, the student must pass a final comprehensive examination.

3. If the thesis option is chosen, the student must:
   1. Submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
   2. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Integrated BS-MS Track
Total Credits Required: 45-54

Course Requirements
Total Credits Required for the Mathematical Sciences M.S.: 30-33

Required Courses – Credits: 6
Complete two of the following courses:
- MAT 707 - Real Analysis I
- MAT 709 - Complex Function Theory I
- MAT 765 - Advanced Numerical Analysis

Elective Courses – Credits: 21-24
Students completing the exam option must complete a minimum of 24 credits of MAT or STA elective courses (excluding MAT 711 & 712), and students completing the thesis option must complete a minimum of 21 credits of MAT or STA elective courses (excluding MAT 711 & 712). Other graduate-level courses may be taken with advisor-approval.

Thesis – Credits: 6 (Optional)
Complete 6 credits from one of the following courses:
- MAT 791 - Thesis
- STA 791 - Thesis

Total Credits Required for the Electrical Engineering M.S.E.: 21-27

Core Courses – Credits: 0-9
Complete a minimum of 0-3 credits in at least three of the following areas:

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I
Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Additional Core Courses – Credits: 0-9
Complete 0-9 credits of additional core courses from the core courses in any of the areas listed above.

Elective Courses – Credits: 0-6
Complete 0-6 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Thesis – Credits: 6
- ECG 797 - Electrical Engineering Thesis

Total Credits Shared: 6
Two courses can be double counted between Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Degree Requirements
1. A minimum of 45, 48, 51, or 54 credits (including thesis credits) of graduate work is required for the Dual Electrical Engineering M.S.E and Mathematical Sciences M.S. which corresponds to the choice of completing a Mathematics comprehensive exam or thesis, and the number of credits of formally approved graduate level courses applied toward the B.S. degree and used in the Electrical Engineering Integrated BS-MS Track.

2. Two of the courses included in the degree program can be double counted Electrical Engineering M.S.E and Mathematical Sciences M.S. degrees. Non-ECG courses must be applied towards non-ECG elective credits in the electrical engineering degree program pursued.

Mathematical Sciences M.S.
1. Students completing a thesis must complete a minimum of 33 credit hours with a minimum GPA of 3.00.
2. Students completing the comprehensive exam must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
3. 21 credits of mathematics course work must be at the 700-level (excluding thesis)
4. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.
5. The Graduate College requires a minimum of 50 percent of the total credits required to complete the graduate degree, exclusive of transferred credits and/or the thesis, must be earned at UNLV after admission to a graduate degree program.
6. Students must complete a final examination. This will be either an examination to defend the thesis or a written comprehensive examination based on requirements 1 and 2.
7. If the thesis option is chosen: In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must...
Electrical Engineering M.S.E.

1. Students must satisfy the M.S.E. - Electrical Engineering degree program admission requirements and be admitted to the M.S.E. - Electrical Engineering program with regular full graduate standing status, having met all conditions and provisions.

2. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

3. Complete a minimum of 21, 24, or 27 credits (including thesis credits) in the Integrated BS-MS track program respectively corresponding to 9, 6, or 3 credits of formally approved graduate level courses applied toward the B.S. degree yielding a total of 30 course credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

4. Students must complete all courses with an overall minimum GPA of 3.00 (B), a minimum GPA of 3.00 (B) each semester, and a minimum GPA of 2.70 (B-) in each class applied towards the 30 credits. Grades below B- are not counted towards the M.S.E. degree and must be repeated or replaced.

5. Students who do not maintain an overall GPA of 3.00 (B), a GPA of 3.00 (B) each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

6. At the time of admission or no later than the first semester, the candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the M.S.E. program.

7. Students must select a faculty advisor in their first semester.

8. A minimum of 18 credits must be in core (formal) electrical engineering courses, of which 15 credits must be 700-level. This excludes Thesis credits, and informal courses (such as Special Topics, Graduate Seminar, and Independent Study).

9. No more than 3 credits may be from Independent Study (which cumulatively includes Graduate Seminar) and no more than a total of 6 credits of the combination of Independent Study, Graduate Seminar, and Graduate Special Topics may be applied towards the M.S.E. degree program.

10. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

11. Students must complete a thesis.

   1. Students must complete at least 6 credits of Thesis which culminates in the successful completion of a thesis oral exam and the submission of an approved thesis. Although Electrical Engineering Thesis can be taken repeatedly, no more than 6 credits can be applied towards the 30 credits required for the M.S.E. degree.

2. Before beginning a thesis, students must have their thesis topic approved by their advisor, and the necessary paper work must be filed with the Graduate College. The thesis prospectus describes the thesis topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take thesis credits until their thesis prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

3. The student must complete a thesis containing original research and publically defend it before his/her advisory committee at the Thesis Exam.

4. Prior to the student’s defense of the thesis before his/her advisory committee, the student must submit a complete copy of the thesis to each member of his/her advisory committee. This submission must occur at least two weeks prior to the date of the oral defense. The student must also notify each member of his/her advisory committee of the date, time and location of the oral defense of the thesis or project at least two weeks in advance.

5. Students who plan to continue their studies beyond the M.S.E. degree program are strongly encouraged to select this option.

12. A full graduate standing master’s degree candidate who is interested in pursuing a doctoral degree may be allowed to take the Ph.D. qualifying exam without penalty during his/her period as an M.S.E. student. The exam may be taken as many times as desired but no more than once a semester at the time the exam is typically offered. The M.S.E. candidate must pass four areas
of choice in a single sitting to satisfy the Qualifying Exam requirement. If the student successfully completes the Qualifying Exam requirement while pursuing the M.S.E. degree in Electrical Engineering with a thesis option in the Electrical and Computer Engineering department at UNLV, the student will have automatically fulfilled the Qualifying Exam requirement upon admission to the Ph.D. program in the Electrical and Computer Engineering program at UNLV. Once the student receives an M.S. degree in the field of Electrical Engineering, the student must abide by the requirements outlined in the Ph.D. program. This option is not available to non-degree students.

Graduation Requirements

1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.
   
2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Mathematical Sciences M.S.

1. The student must successfully complete a culminating experience.
   
2. If the exam option is chosen, the student must successfully pass a final comprehensive examination.

3. If the thesis option is chosen, the student must:
   
   1. Submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
   
   2. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Electrical Engineering M.S.E.

1. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

2. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Master of Science in Engineering - Electrical Engineering

Plan Description

The Department of Electrical and Computer Engineering at UNLV offers a number of program degree options leading to the Master of Science in Engineering (M.S.E.) - Electrical Engineering. Specific areas of study that are currently available include Communications, Computer Engineering, Control System Theory, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices. The following degree options are available: M.S.E. - Electrical Engineering with thesis option, M.S.E. – Electrical Engineering with course only option, M.S.E. – Electrical Engineering Integrated BS-MS track option, and M.S.E. – Electrical Engineering dual degree option. The M.S.E. – Electrical Engineering thesis option culminates with a thesis which prepares the student for a Ph.D. experience if higher education is desired. The course only option is a final advanced professional degree option culminating with a comprehensive exam that must be passed in the student’s specialty area. The Integrated BS-MS track option is for UNLV graduates who excel in their ECE UNLV undergraduate programs wanting to attain a M.S.E. or Ph.D. degree at UNLV in ECE with the thesis option. The dual degree program allows the student to complete a M.S.E. – Electrical Engineering degree and a Masters of Science in Mathematics degree jointly [Refer to Dual Degree: Master of Science in Engineering – Electrical Engineering and Master of Science – Mathematical Sciences].

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Applications available on the UNLV Graduate College website. Applications are considered on an individual basis. Candidates can be admitted on a regular (full graduate standing) or provisional status. Qualified applicants who are not admitted on either status can take graduate courses as a non-degree seeking graduate student. Up to 15 UNLV credits taken as a non-degree seeking graduate student at UNLV can be applied towards an M.S.E. degree. Potentially, six graduate credits taken at another regionally accredited university [Graduate College Policy] may be transferred into the M.S.E. degree program at UNLV. At most, only 15 credits of a combination of non-UNLV course credits and ECE UNLV course credits taken as a non-seeking graduate student may be applied to the M.S.E. program. Courses with a grade less than B (3.0) cannot be applied to the M.S.E. program. Further, the courses must not have been or will be applied to different degree program. Note that informal course credits will not be transferred into a M.S.E. degree program. Informal courses such as Graduate Independent Study and seminar taken as a non-degree seeking student cannot be applied towards an M.S.E. degree. Non-degree seeking students can count Electrical & Computer Engineering Graduate Special Topics towards the program degree as long as they adhere to the...
conditions of the particular program option regarding informal course credits.

To be considered for admission to the M.S.E. program, an applicant must:

1. Have a Bachelor of Science (B.S.) degree in electrical engineering, computer engineering or a closely related discipline.
   a. Applicants who possess a bachelor’s degree in a closely related discipline, such as physics or mathematics, may be admitted on conditional and/or provisional status. These students will be required to complete certain undergraduate and/or graduate courses before they can attain regular status. The graduate committee determines these courses on an individual basis.
   b. Graduates with degrees in engineering technology ordinarily have an inadequate background to be admitted to the graduate program.

2. Have a minimum grade point average (GPA) of 3.00 (A=4.00) for their bachelor’s degree. Applicants who have an overall GPA below 3.00 must submit Graduate Record Examination (GRE) scores (scaled score and percentile score in quantitative, verbal reasoning, and analytical writing) to the Electrical and Computer Engineering Department. These applicants may be admitted subject to the discretion and possible further requirements of the Electrical and Computer Engineering Graduate Committee. Applicants who want to be considered for an assistantship, or who feel that their GRE scores will enhance their chances for admission, are strongly encouraged to submit GRE scores.

3. Submit GRE scaled and percentile scores in quantitative, verbal reasoning, and analytical writing to the Department of Electrical and Computer Engineering if the applicant did not obtain his bachelor’s degree from an ABET accredited institution, if the applicant is interested in a teaching assistantship, or if the applicant received a Bachelor’s Degree in Electrical and Computer Engineering more than five years prior to the first day of the first semester of the degree program applied for. Interpretation of the scores is at the discretion of the Electrical and Computer Engineering Graduate Committee. (An applicant possessing a bachelor’s degree from an ABET accredited institution within the past five years is not required to submit GRE scores.)

4. Submit a completed application prior to the department’s admission deadline.
   a. Completed online application.
   b. Submit official transcripts of all college-level work to the Graduate College.

   c. Submit an additional set of transcripts of all college-level work directly to the Department of Electrical and Computer Engineering.

   d. Submit a one page written statement of purpose indicating the applicant’s research interests, motivations, and objectives.
      i. In the statement of purpose, the applicant must explicitly identify his/her areas of interest from the following list of areas offered at UNLV in the ECE Department: Communications, Computer Engineering, Control Systems, Electromagnetics and Optics, Electronics, Power Systems, Signal Processing, and Solid State Materials and Devices (which includes Nanotechnology).
      ii. Applicants are required to account for all time beyond the Bachelor degree indicating how they have developed professionally.
      iii. Applicants transferring from other graduate programs must justify why they are leaving that program to join our program.
      iv. Applicants receiving grades less than B in a graduate course elsewhere may not be admitted to the graduate program without a well-justified explanation. Poor performance in course work in the program that the student is transferring from may be a cause for denial of admission. It will be the graduate committee’s discretion whether to allow or deny admission.

   e. Submit three dated letters of recommendation concerning the applicant’s potential for succeeding in the graduate program. If the applicant has attended a university or is currently enrolled in a program beyond the bachelor degree, then the letters of recommendation should be solicited from that university or program. If the applicant has been out of school for an extended period of time, then letters should be solicited from the professional community that can comment on the applicant’s technical background and/or from the applicant’s most recent academic institution. Letters of recommendation written beyond a six-month period prior to applying for admission to our graduate program will not be accepted. Strong letters of recommendation illustrate technical talent and professional accomplishments beyond the grade point average or course grade. The graduate committee is interested in the
applicant’s technical, conceptual, verbal, ethical, and social skills. The graduate committee is interested in the applicant’s ability to perform research with evidence to substantiate claims made. Note that letters from professors that casually know the applicant will not help in the admission process.

f. Application deadlines are February 1st for admission in the fall of the same year and October 1st for admission in the spring of the subsequent year.

1. Before international applicants can be considered for admission, the Graduate College requires that all international applicants take the Test of English as a Foreign Language (TOEFL) and obtain a minimum score of 550 or 85 on the Michigan Test. Students whose first language is not English may be required to take and pass the English as a Second Language Placement Test upon arrival at UNLV. If necessary, they will be required to take English as a Second Language (ESL) courses at UNLV.

2. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The Integrated BS-MS Track program allows select UNLV undergraduates to pursue the Electrical Engineering M.S.E. degree at UNLV. The program provides an opportunity for those undergraduates who have taken either 9, 6, or 3 graduate-level electrical and computer engineering course credits applied toward their undergraduate electrical/computer engineering degrees, to complete the respectively corresponding M.S. in Engineering with a total of either 21, 24, or 27 as opposed to the 30 credits required for Thesis Track. Students admitted to the Integrated BS-MS Track program are required to write a thesis.

To be considered for admission to the Integrated BS-MS Track, an applicant must:

1. Have a minimum overall grade point average (GPA) of 3.5 (A = 4.00) for their B.S. degree in electrical engineering or computer engineering at UNLV.

2. Have completed up to a maximum of 9 credits of formal Graduate College curriculum approved 600/700 level courses (which excludes informal courses such as Graduate Independent Study, Graduate Seminar, and Special Topics) which were applied towards the student’s B.S. degree. Each graduate level course must have been completed with a minimum grade of B (3.0).

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Comprehensive Exam Track
Total Credits Required: 30

Course Requirements

Communications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design
Power Engineering
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Additional Core Courses – Credits: 12
Complete 12 credits of 700-level additional core courses from the core courses in any of the areas listed above.

Elective Courses – Credits 9
Complete a minimum of 9 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Degree Requirements
1. Students must satisfy the M.S.E. - Electrical Engineering degree program admission requirements and be admitted to the M.S.E. - Electrical Engineering program with regular full graduate standing status, having met all conditions and provisions.

2. Students must complete a minimum of 30 credits of graduate level courses with an overall minimum GPA of 3.00 (B), a minimum GPA of 3.00 (B) each semester, and a minimum GPA of 2.70 (B-) in each class applied towards the 30 credits. Grades below B- are not counted towards the M.S.E. degree and must be repeated or replaced.

3. Students who do not maintain an overall GPA of 3.00 (B), a GPA of 3.00 (B) each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

4. At the time of admission or no later than the first semester, the candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the M.S.E. program.

5. Students must select a faculty advisor in their first semester.

6. A minimum of 21 credits must be in core electrical engineering 700-level courses excluding informal courses (such as Independent Study, Graduate Seminar, and Special Topics).

7. No more than 3 credits may be from Independent Study (which cumulatively includes Graduate Seminar) and no more than a total of 6 credits of the combination of Independent Study, Graduate Seminar, and Graduate Special Topics may be applied towards the M.S.E. degree program.

8. Pass a comprehensive exam on graduate level coursework in the student’s specialty area.
   1. The exam may be taken in the last two semesters of the student’s M.S.E. program.
   2. The student may not take the exam until all course work pertaining to the exam is completed. For clarity, students enrolled in courses pertaining to the comprehensive exam cannot take the comprehensive exam. Within the six year limit, the exam may be repeated until passed but cannot be taken more than once per semester. Prior to the end of the first week of classes in the student’s last two semesters, the student must announce to the ECE Graduate Coordinator his/her intention of taking the exam, the major field to be examined, and at least two courses taken in that field.

9. The Comprehensive Exam Track is a final advanced professional degree option in that students who complete this track will not be considered for admission into any of the department’s Ph.D. program options.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a final comprehensive exam.
**Subplan 2 Requirements: Thesis Track**

**Total Credits Required:** 30

**Course Requirements**

**Core Courses – Credits:** 9

Complete a minimum of 3 credits in at least three of the following areas:

**Communications**
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

**Computer Engineering**
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

**Control Systems Theory**
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

**Electromagnetics and Optics**
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

**Electronics**
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design

**Power Engineering**
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

**Signal Processing**
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

**Solid State Electronics**
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State
Devices

- ECG 758 - Numerical Methods in Engineering

Additional Core Courses – Credits: 9
Complete 9 credits of additional core courses from the core courses in any of the areas listed above.

Elective Courses – Credits: 6
Complete a minimum of 6 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Thesis – Credits: 6
- ECG 797 - Electrical Engineering Thesis

Degree Requirements

1. Students must satisfy the M.S.E. - Electrical Engineering degree program admission requirements and be admitted to the M.S.E. - Electrical Engineering program with regular full graduate standing status, having met all conditions and provisions.

2. Students must complete a minimum of 30 credits of graduate level courses with an overall minimum GPA of 3.00 (B), a minimum GPA of 3.00 (B) each semester, and a minimum GPA of 2.70 (B-) in each class applied towards the 30 credits. Grades below B- are not counted towards the M.S.E. degree and must be repeated or replaced.

3. Students who do not maintain an overall GPA of 3.00 (B), a GPA of 3.00 (B) each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

4. At the time of admission or no later than the first semester, the MS candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the M.S.E. program.

5. Students must select a faculty advisor in their first semester.

6. A minimum of 18 credits must be in core (formal) electrical engineering courses, of which 15 credits must be 700-level. This excludes Thesis credits, and informal courses (such as Special Topics, Graduate Seminar, and Independent Study).

7. No more than 3 credits may be from Independent Study (which cumulatively includes Graduate Seminar) and no more than a total of 6 credits of the combination of Independent Study, Graduate Seminar, and Graduate Special Topics may be applied towards the M.S.E. degree program.

8. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

9. Students must complete a thesis.

1. Students must complete at least 6 credits of Thesis which culminates in the successful completion of a thesis oral exam and the submission of an approved thesis. Although Electrical Engineering Thesis can be taken repeatedly, no more than 6 credits can be applied towards the 30 credits required for the M.S.E. degree.

2. Before beginning a thesis, students must have their thesis topic approved by their advisor, and the necessary paper work must be filed with the Graduate College. The thesis prospectus describes the thesis topic and must include an introductory set of sentences, a well-formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take thesis credits until their thesis prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

3. The student must complete a thesis containing original research and publically defend it before his/her advisory committee at the Thesis Exam.

4. Prior to the student’s defense of the thesis before his/her advisory committee, the student must submit a complete copy of the thesis to each member of his/her advisory committee. This submission must occur at least two weeks prior to the date of the oral defense. The student must also notify each member of his/her advisory committee of the date, time and location of the oral defense at least two weeks in advance.

5. Students who plan to continue their studies beyond the M.S.E. degree program are strongly encouraged to select this option.

10. A full graduate standing master’s degree candidate who is interested in pursuing a doctoral degree may be allowed to take the Ph.D. qualifying exam without penalty during his/her period as an M.S.E. student. The exam may be taken as many times as desired but no more
than once a semester at the time the exam is typically offered. The M.S.E. candidate must pass four areas of choice in a single sitting to satisfy the Qualifying Exam requirement. If the student successfully completes the Qualifying Exam requirement while pursuing the M.S.E. degree in Electrical Engineering with a thesis option in the Electrical and Computer Engineering department at UNLV, the student will have automatically fulfilled the Qualifying Exam requirement upon admission to the Ph.D. program in the Electrical and Computer Engineering program at UNLV. Once the student receives an M.S. degree in the field of Electrical Engineering, the student must abide by the requirements outlined in the Ph.D. program. This option is not available to non-degree students.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Integrated BS-MS Track

Total Credits Required: 21-27

Course Requirements

Core Courses – Credits: 0-9

Complete a minimum of 0-3 credits in at least three of the following areas:

Communications
- ECG 662 - Digital Communication Systems
- ECG 666 - Wireless and Mobile Communication Systems
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 763 - Advanced Digital Communication Systems

Computer Engineering
- ECG 600 - Computer Communication Networks
- ECG 604 - Modern Processor Architecture
- ECG 605 - Data Compression Systems
- ECG 607 - Biometrics
- ECG 608 - Digital Design Verification and Testing
- ECG 609 - Embedded Digital Signal Processing
- ECG 617 - Internet of Things Systems
- ECG 700 - Advanced Computer System Architecture
- ECG 701 - Reliable Design of Digital Systems
- ECG 702 - Interconnection Networks for Parallel Processing Applications
- ECG 704 - Coding with Applications in Computers and Communication Media
- ECG 706 - Analysis of Telecommunication and Data Networks
- ECG 707 - Logic Synthesis Engineering
- ECG 709 - Synthesis and Optimization of Digital Systems

Control Systems Theory
- ECG 672 - Digital Control Systems
- ECG 770 - Linear Systems
- ECG 771 - Optimal and Modern Control
- ECG 772 - Nonlinear Systems
- ECG 774 - Stochastic Control
- ECG 776 - Adaptive Control

Electromagnetics and Optics
- ECG 630 - Transmission Lines
- ECG 631 - Engineering Optics
- ECG 632 - Antenna Engineering
- ECG 633 - Active and Passive Microwave Engineering
- ECG 730 - Advanced Engineering Electromagnetics I
- ECG 731 - Theoretical Techniques in Electromagnetics
- ECG 732 - Advanced Engineering Electromagnetics II
- ECG 733 - Plasma I

Electronics
- ECG 620 - Analog Integrated Circuit Design
- ECG 621 - Digital Integrated Circuit Design
- ECG 720 - Advanced Analog IC Design
- ECG 721 - Memory Circuit Design
- ECG 722 - Mixed-Signal Circuit Design
Power Engineering
- ECG 642 - Power Electronics
- ECG 646 - Photovoltaic Devices and Systems
- ECG 740 - Computer Analysis Methods for Power Systems
- ECG 741 - Electric Power Distribution System Engineering
- ECG 742 - Power System Stability and Control
- ECG 743 - Smart Electrical Power Grid

Signal Processing
- ECG 680 - Discrete-Time Signal Processing
- ECG 760 - Random Processes in Engineering Problems
- ECG 762 - Detection and Estimation of Signals in Noise
- ECG 781 - Digital Filters
- ECG 782 - Multidimensional Digital Signal Processing
- ECG 783 - Adaptive Signal Processing with Neural Networks

Solid State Electronics
- ECG 651 - Electronic and Magnetic Materials and Devices
- ECG 652 - Optoelectronics
- ECG 653 - Introduction to Nanotechnology
- ECG 750 - Photonics
- ECG 752 - Physical Electronics
- ECG 753 - Advanced Topics in Semiconductor Devices I
- ECG 755 - Monolithic Integrated Circuit Fabrication
- ECG 756 - Advanced Topics in Semiconductor Devices II
- ECG 757 - Electron Transport Phenomena in Solid State Devices
- ECG 758 - Numerical Methods in Engineering

Additional Core Courses – Credits: 0-9
Complete 0-9 credits of additional core courses from the core courses in any of the areas listed above.

Elective Courses – Credits: 0-6
Complete 0-6 credits of 600- or 700-level MAT, PHY, AST, CEE, CEM, ECG, EGG, CS, ME, or other advisor-approved courses.

Thesis – Credits: 6
- ECG 797 - Electrical Engineering Thesis

Degree Requirements
1. Students must satisfy the M.S.E. - Electrical Engineering degree program admission requirements and be admitted to the M.S.E. - Electrical Engineering program with regular full graduate standing status, having met all conditions and provisions.

2. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

3. Complete a minimum of 21, 24, or 27 credits (including thesis credits) in the Integrated BS-MS track program respectively corresponding to 9, 6, or 3 credits of formally approved graduate level courses applied toward the B.S. degree yielding a total of 30 course credits. The final division of major, minor, and elective credits will be determined in consultation with the student’s advisor.

4. Students must complete all courses with an overall minimum GPA of 3.00 (B), a minimum GPA of 3.00 (B) each semester, and a minimum GPA of 2.70 (B-) in each class applied towards the 30 credits. Grades below B- are not counted towards the M.S.E. degree and must be repeated or replaced.

5. Students who do not maintain an overall GPA of 3.00 (B), a GPA of 3.00 (B) each semester, or who earn more than one grade below B- will either be placed on probation or expelled from the program. The Electrical and Computer Engineering Graduate Committee and/or the Graduate College will determine the terms of the student’s probation in accordance with the rules of the Graduate College.

6. At the time of admission or no later than the first semester, the MS candidate must formally petition BOTH the graduate college and the ECE graduate committee to accept transfer credits and credits taken as a non-degree seeking graduate student to be applied to the M.S.E. program.

7. Students must select a faculty advisor in their first semester.

8. A minimum of 18 credits must be in core (formal) electrical engineering courses, of which 15 credits must be 700-level. This excludes Thesis credits, and informal courses (such as Special Topics, Graduate Seminar, and Independent Study).

9. No more than 3 credits may be from Independent Study (which cumulatively includes Graduate Seminar) and no more than a total of 6 credits of the combination of Independent Study, Graduate Seminar, and Graduate Special Topics may be applied towards the M.S.E. degree program.
10. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

11. Students must complete a thesis.

   1. Students must complete at least 6 credits of Thesis which culminates in the successful completion of a thesis oral exam and the submission of an approved thesis. Although Electrical Engineering Thesis can be taken repeatedly, no more than 6 credits can be applied towards the 30 credits required for the M.S.E. degree.

   2. Before beginning a thesis, students must have their thesis topic approved by their advisor, and the necessary paper work must be filed with the Graduate College. The thesis prospectus describes the thesis topic and must include an introductory set of sentences, a well formed hypothesis or hypotheses (specifically italicized in the prospectus) accompanied by a motivation, objectives with major and alternative approaches to the studies, and conjectures of possible outcomes. Students are NOT allowed to take thesis credits until their thesis prospectus is approved. Credits taken before the approval date will NOT count towards the degree program.

   3. The student must complete a thesis containing original research and publically defend it before his/her advisory committee at the Thesis Exam.

   4. Prior to the student’s defense of the thesis before his/her advisory committee, the student must submit a complete copy of the thesis to each member of his/her advisory committee. This submission must occur at least two weeks prior to the date of the oral defense. The student must also notify each member of his/her advisory committee of the date, time and location of the oral defense of the thesis or project at least two weeks in advance.

   5. Students who plan to continue their studies beyond the M.S.E. degree program are strongly encouraged to select this option.

12. A full graduate standing master’s degree candidate who is interested in pursuing a doctoral degree may be allowed to take the Ph.D. qualifying exam without penalty during his/her period as an M.S.E. student. The exam may be taken as many times as desired but no more than once a semester at the time the exam is typically offered. The M.S.E. candidate must pass four areas of choice in a single sitting to satisfy the Qualifying Exam requirement. If the student successfully completes the Qualifying Exam requirement while pursuing the M.S.E. degree in Electrical Engineering with a thesis option in the Electrical and Computer Engineering department at UNLV, the student will have automatically fulfilled the Qualifying Exam requirement upon admission to the Ph.D. program in the Electrical and Computer Engineering program at UNLV. Once the student receives an M.S. degree in the field of Electrical Engineering, the student must abide by the requirements outlined in the Ph.D. program. This option is not available to non-degree students.

Graduation Requirements

   1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

   2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

   3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
ECG 600 - Computer Communication Networks Credits 3
Computer network architecture; the OSI Model: network protocols; local area networks; fiber optics communication; ISDN; elements of Queueing Theory, with emphasis on hardware design issues.

ECG 603 - Embedded Systems Design Credits 3
Embedded Systems Design.

ECG 604 - Modern Processor Architecture Credits 3

ECG 605 - Data Compression Systems Credits 3

ECG 607 - Biometrics Credits 3
Taxonomics of devices and applications, probability and statistical testing methods and applications, on and off dimensional transform techniques, finger printing, voice recognition, facial recognition, and iris scanning, large scale identification applications, multibiometrics, social, legal, and ethical concerns. Notes: This course is crosslisted with CS 407. Credit at the 600 level requires additional work.

ECG 608 - Digital Design Verification and Testing Credits 3
A study of complete digital design testing during all design flow stages - from writing code to testing chips after manufacturing, creating and implementing effective test scenarios and assertion techniques, designing self-testing devices. Students will get hands-on experience with various EDA tools for design testing, verification, logic and fault simulation.

ECG 609 - Embedded Digital Signal Processing Credits 3
Hardware implementation of DSP operations, filters, interpolation and decimation, linear and non-linear transforms. Embedded audio and video processing, error control and coding. DSP processors.

ECG 617 - Internet of Things Systems Credits 3
The elements of IoT, detailed analysis of IoT sensors, IoT networking and sensor-system communications. The analysis of the process of designing the IoT systems, design of the data management / databases and security requirements. Class is project-based. Notes: This course is crosslisted with EE 401. Coursework at the 600-level requires additional work.

ECG 620 - Analog Integrated Circuit Design Credits 3
An introduction to the design, layout, and simulation of analog integrated circuits including current mirrors, voltage and current references, amplifiers, and op-amps. Prerequisites: EE 320.

ECG 621 - Digital Integrated Circuit Design Credits 3
An introduction to the design, layout, and simulation of digital integrated circuits. MOSFET operation and parasitics. Digital design fundamentals including the design of digital logic blocks. Prerequisites: EE 300 and EE 320.

ECG 630 - Transmission Lines Credits 3
Telegraphist’s equations; transient response—steady state response; reflection diagrams; Smith chart; matching techniques and designs; narrow and broadband impedance matching techniques; scattering matrix; introduction to stripline and microstrip devices.

ECG 631 - Engineering Optics Credits 3
Fundamentals of antennas and antenna design; linear wire, loop, and antenna arrays; antenna measurements.

ECG 632 - Antenna Engineering Credits 3
Fundamentals of antennas and antenna design; linear wire, loop, and antenna arrays; antenna measurements.

ECG 633 - Active and Passive Microwave Engineering Credits 3
This 600-level course has been approved by the Graduate College for possible inclusion in graduate programs. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

ECG 642 - Power Electronics Credits 3
Topics include: diode circuits and rectifiers, power semiconductor diodes and transistors, thyristors and static switches, controlled rectifiers, AC voltage controllers, DC choppers, inverters, AC and DC drives, power supplies and protection of devices and circuits.

ECG 646 - Photovoltaic Devices and Systems Credits 3
This course covers solar resource characteristics, solar cell physics and technologies, cell electrical characteristics, PV module design, DC-AC inverters, battery energy storage and charge controllers, design of stand-alone and grid-connected PV systems, and economic considerations. Prerequisites: Enrollment in the Solar and Renewable Energy Graduate Certificate Program, or graduate standing for engineering students.

ECG 651 - Electronic and Magnetic Materials and Devices Credits 3
Semiconductors, dielectrics, ferroelectrics, antiferromagnetics, ferromagnetics, ferrimagetics, crystal structure, structure-property relations, device applications.

ECG 652 - Optoelectronics Credits 3
Topics include: modulation of light, display devices, lasers, photodetectors, fiber optics, engineering applications, and systems.

ECG 653 - Introduction to Nanotechnology Credits 3

ECG 654 - Introduction to Biomedical Signals and Systems Credits 3
Introduction to biomedical signals, transduction devices, biologic potentials and sensors. Application of electrical signal and system principles to biosignals, such as cardiovascular electrical signals, neural electrical communication, and diagnostic ultrasound. Includes current biomedical engineering topics.

ECG 655 - Special Topics Credits 1-4
Covers experimental and other topics which may be of current interest. Topics and credits to be announced. Notes: May be repeated once under a different topic. May have a laboratory.
**ECG 755 - Monolithic Integrated Circuit Fabrication**  
Credits 3  
Fabrication of integrated silicon and gas circuits, thermal oxidation, solid state diffusion, epitaxial growth, ion implantation, photo and electron lithography, design considerations, surface effect. Prerequisites: Graduate standing or consent of instructor.

**ECG 756 - Advanced Topics in Semiconductor Devices II**  
Credits 3  
Topics of current interest in solid state electronic devices: ultrashort electronics, high electron mobility transistors, superlattices, heteroface devices, transfer electron devices and III-V and II-VI compounds, novel device structures. Novel approaches to device modeling such as Monte Carlo simulations, self-consistent solution of Schrödinger and Poisson and other approaches. Prerequisites: ECG 753

**ECG 757 - Electron Transport Phenomena in Solid State Devices**  
Credits 3  
Phenomenological transport equations, Boltzmann transport equation, relaxation time approximation, low field and high electron transport in Si and GaAs, moments of BTE, Monte Carlo simulation, spatial and temporal transients, device analysis, Quantum transport. Prerequisites: ECG 450 or ECG 753.

**ECG 758 - Numerical Methods in Engineering**  
Credits 3  
Computational course with emphasis on both the numerical analysis and the programming aspects of computer-aided design using simulation methods. Coverage includes understanding and use of CAD programs such as ECAP, CIRCUS, ICECREM, SUPREM, etc. Prerequisites: Graduate standing or consent of instructor.

**ECG 758R - Optical Sensing**  
Credits 3  
Quick review of fiber optics, lasers, and detectors. Fiber responses to disturbances, interferometry, displacement sensors, laser stabilization, atomic clocks, precision time and frequency transfer, multiplexing in time, spatial, wavelength domains, rotation and angular sensors, acoustic sensors, deformation sensors, photonic Doppler velocimetry, remote sensing, biosensors, quantum enhancement. Prerequisites: Consent of instructor. It is recommended but not required for students to have completed ECG 652 Optical Electronics and ECG 750 Photonics.

**ECG 760 - Random Processes in Engineering Problems**  
Credits 3  
Basic probability theory, random variables, probability and densities, expectation, static estimation, random processes, power spectral density, mean square calculus, Wiener integrals. Prerequisites: ECG 460, MATH 461 or consent of instructor.

**ECG 762 - Detection and Estimation of Signals in Noise**  
Credits 3  
Hypothesis testing, matched filters, estimation theory, Kalman and Wiener filters, applications to communication systems. Prerequisites: ECG 460, ECG 760 or consent of instructor.

**ECG 763 - Advanced Digital Communication Systems**  
Credits 3  
Digital communication systems with emphasis in digital modulation schemes, optimal detectors, inter symbol interference, channel equalization and multi-carrier communications. Prerequisites: EE 460

**ECG 770 - Linear Systems**  
Credits 3  
Mathematical systems theory, state space concepts, canonical forms, time and frequency domains, controllability and observability, state feedback, compensator design, and algebraic systems theory. Prerequisites: ECG 470, MATH 431 or consent of instructor.

**ECG 771 - Optimal and Modern Control**  
Credits 3  
Students will participate in one of the following activities: research; clinical activity; community outreach under the supervision of a dentist/mentor; may also participate in clinical externship activities with prior approval. Notes: Topics selected according to the interests of the class. Prerequisites: ECG 770

**ECG 772 - Nonlinear Systems**  
Credits 3  
Introduction, differential equations, approximate analysis methods, Lyapunov stability, input-output stability. Prerequisites: ECG 770 or consent of instructor.

**ECG 774 - Stochastic Control**  
Credits 3  
Introduction, stochastic processor, state estimation, Kalman Filter, nonlinear estimation, stochastic control. Prerequisites: ECG 770 or consent of instructor.
Mechanical Engineering

Graduate students in the mechanical engineering program join highly active research teams. They learn advanced engineering concepts and develop research skills allowing them to investigate and solve critical and relevant technological problems. Many of our graduate students present results of their work at prestigious international conferences and publish in high quality journals. Our graduate student alumni have gone on to careers as researchers in government or industry laboratories, faculty at academic institutions or engineers at a wide range of companies.

Courses and research projects focus on: active (smart) materials, aerospace, vibrations and acoustics, heat transfer, fluid flow (and computational fluid dynamics), environmental transport processes, multiphase flow, energy conservation and conversion technologies, alternative energy including solar power, automatic control, robotics, unmanned aerial systems, biomedical engineering, nuclear engineering and materials, structural properties of engineering materials, composite materials, and computational simulation of structures under extreme dynamic loading.

Graduate students have access to all departmental laboratories and equipment as well as the facilities of the National Supercomputing Center for Energy and the Environment. The department supports numerous networked workstations.

The laboratories of the department include the Drones and Autonomous Systems Lab, Active Materials and Smart Living Laboratory, a full range of solar and renewable energy facilities, extensive acoustics and vibrations facility, thermal-fluids capability, full array of mechanical testing machines, measurement and control laboratory, and nuclear sensors and devices laboratory. A unique laboratory also exists for full-scale testing of ducts and diffusers, including indoor air quality and HVAC equipment.

Brendan O’Toole, Ph.D., Chair
Hui Zhao, Ph.D., Graduate Coordinator

Mechanical Engineering Faculty

Chair
O’Toole, Brendan J. - Full Graduate Faculty Professor; B.S., M.S., Ph.D., University of Delaware. Rebel since 1992.

Graduate Coordinator
Zhao, Hui - Full Graduate Faculty Associate Professor; B.S., M.S., Peking University, China; Ph.D., University of Pennsylvania. Rebel since 2009.

Graduate Faculty
Bansal, Shubhra - Full Graduate Faculty Assistant Professor; B.S., Indian Institute of Technology, M.S., Ph.D., Georgia Institute of Technology. Rebel since 2015.

Barzilov, Alexander P. - Full Graduate Faculty Associate Professor; M.S. Institute of Nuclear Power Engineering (INPE), Obninsk, Russia; Ph.D. Institute of Physics and Power Engineering (IPPE), Obninsk, Russia. Rebel since 2012.

Boehm, Robert F. - Full Graduate Faculty Professor; B.S., M.S., Washington State University; Ph.D., University of California, Berkeley; P.E., California. Rebel since 1990.

Chen, Yi Tung - Full Graduate Faculty Professor; B.S, Feng Chia University; M.S., Ph.D., University of Utah. Rebel since 1993.

Culbreth, William G. - Full Graduate Faculty Associate Professor; B.S., California State Polytechnic University, Pomona; M.S., Ph.D., University of California, Santa Barbara. Rebel since 1985.

Hartmann, Thomas - Full Graduate Faculty Associate Professor; Diploma in Mineralogy, University Heidelberg, Ph.D., University Heidelberg / Karlsruhe Institute of Technology

Kim, Kwang J. - Full Graduate Faculty Professor; B.S., Yonsei University, S. Korea; M.S., Ph.D., Arizona State University. Rebel since 2012.

Mauer, Georg F. - Full Graduate Faculty Professor; Diploma-Ingenieur; Ph.D., Technical University of Berlin. Rebel since 1986.

Moon, Jaeyun - Full Graduate Faculty Assistant Professor; B.S., M.S., Hanyang University; Ph.D., University of California, San Diego. Rebel since 2014.

Moujaes, Samir F. - Full Graduate Faculty Professor; B.S., M.S., American University of Beirut; Ph.D., University of Pittsburgh; P.E., Nevada. Rebel since 1984.

Oh, Paul - Full Graduate Faculty Professor; B.S., McGill University; M.S., Seoul National University; Ph.D., Columbia University. Rebel since 2014.

Pepper, Darrell W. - Full Graduate Faculty Professor; B.S., M.S., Ph.D., University of Missouri-Rolla. Rebel since 1992.

Reynolds, Douglas D. - Full Graduate Faculty Professor; B.S., Michigan State University; M.S., Ph.D., Purdue University. Rebel since 1983.

Rice, Stephen - Full Graduate Faculty Professor; B.S., M. Engr., Ph.D., University of California, Berkeley. Rebel since 1966.

Trabia, Mohamed - Full Graduate Faculty Professor; B.S., M.S., Alexandria University; Ph.D., Arizona State University. Rebel since 1987.

Wang, Zhiyoung - Full Graduate Faculty Associate Professor; B.S., M.S., Ph.D., Harbin University of Science and Technology. Rebel since 1998.

Yim, Woosoon - Full Graduate Faculty Professor; B.S., Hanyang University, S. Korea; M.S., Ph.D. University of Wisconsin-Madison. Rebel since 1987.

Graduate Certificate in Nuclear Criticality Safety
Graduate Certificate in Nuclear Safeguards and Security
Master of Science in Aerospace Engineering
Master of Science - Biomedical Engineering
Master of Science - Materials and Nuclear Engineering
Master of Science in Engineering - Mechanical Engineering
Doctor of Philosophy - Mechanical Engineering
Graduate Certificate in Nuclear Criticality Safety

Plan Description

The graduate, distance education Nuclear Criticality Safety (NCS) Certificate program will provide the graduate MSMNE student a diverse education and the practicing NCS engineer (and their employer) with components that will help train and maintain a well-qualified workforce. The UNLV NCS Certificate will provide evidence that the graduate has the appropriate education to become a certified NCS Engineer in NRC-licensed facilities, US DOE’s national laboratories, and the Navy Reactors program. The NCS Certificate program consists of four nuclear engineering courses (twelve credits total) that include three required courses and a related/approved elective course. In addition, many of the proposed topic areas, e.g., Introduction to Nuclear Criticality Safety, are also appropriate subjects for general nuclear engineering graduate students (i.e., not NCS engineers), while other certificate program courses, e.g., Monte Carlo Methods are appropriate for both UNLV’s NE students as well as health and medical physics students.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the NCS Certificate program requires both a BS degree in an engineering discipline and ME 455/655 Fundamentals of Nuclear Engineering (or equivalent).

If an applicant can demonstrate equivalent knowledge from relevant work experience (e.g., Navy nuclear reactor program or extensive training and experience at an NRC-licensed or DOE process facility), the Director of the NCS Certificate Program can waive both requirements with the concurrence of the Chair of the Department of Mechanical Engineering based upon review by nuclear engineering faculty.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 9

- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering

Elective – Credits: 3

Complete an advisor-approved graduate-level nuclear engineering or health physics course.

Certificate Requirements

Completion of a minimum of 12 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Graduate Certificate in Nuclear Safeguards and Security

Plan Description

The graduate Nuclear Safeguards and Security (NSS) Certificate program will provide graduate students and practicing engineers (and their employers) a diverse education with components that will help train and maintain a well-qualified workforce. The UNLV NSS Certificate will provide evidence that the graduate has the appropriate education to become a nuclear safeguards and security engineer in NRC-licensed facilities and US DOE’s national laboratories.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the NSS Certificate program, either as a MSMNE student or as a non-admitted student, requires both a BS degree in an engineering or related discipline and ME 455/655 Fundamentals of Nuclear Engineering or HPS 701 Applied Nuclear Physics (or an equivalent course). If an applicant can demonstrate equivalent knowledge from relevant work experience (e.g., Navy nuclear reactor program or extensive training and experience at an NRC-licensed or DOE process facility), the Director of the NSS Certificate Program can waive the prerequisite course requirement with the concurrence of the Chair of the Department of Mechanical Engineering based upon review by nuclear engineering faculty.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 9

- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering

Certificate Requirements

Completion of a minimum of 12 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Course Requirements

Required Courses – Credits: 9
- ME 757 - Radiation Monitoring and Safeguards Systems
- ME 758 - Accelerator Applications in Nuclear Engineering
- ME 765 - Neutron Detection and Production

Elective Course – Credits: 3
Complete one of the following courses, or another advisor approved NSS-relevant Mechanical Engineering, Radiochemistry or Health Physics graduate course.
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle

Certificate Requirements
1. Completion of a minimum of 12 credit hours.
2. A grade point average of at least 3.00 for course work required for the certificate.
3. No grade lower than B is acceptable.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Doctor of Philosophy - Mechanical Engineering

Plan Description
The Department of Mechanical Engineering offers a program leading to the Ph.D. degree in Engineering in the field of Mechanical Engineering. The program also offers the Ph.D. degree with a concentration in the field of Nuclear Engineering.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Application for the Ph.D. program can be completed by one of two mechanisms. The Post-Master’s Track requires the student to complete an M.S. degree in Engineering or equivalent with a major in mechanical engineering or closely related fields (nuclear engineering or health physics for the Nuclear concentration track). The Post-Bachelor’s Track allows those undergraduates with outstanding undergraduate backgrounds to enter the Ph.D. program without having to complete an M.S. degree. The degree requirements for both options are the same beyond the B.S. degree excluding the completion of a master’s thesis.

In order to be admitted to the Ph.D. program in Engineering in the field of Mechanical Engineering, a student must complete the following requirements:

1. Applicants must complete the on-line process in the Grad Rebel Gateway system.
2. Mechanical Engineering applicants must provide two additional items while completing the process in the Grad Rebel Gateway system:
   1. Submit a written statement of purpose indicating interests and objectives in working toward a Ph.D. degree. This is a 1-2 page essay describing the applicant’s reasons for considering graduate study, goals after completion of the graduate degree, and the applicant’s specific areas of interest.
   2. Submit three letters of recommendation using the online recommendation system. There is no specified format. Each letter should detail the potential of the applicant for success in a Mechanical Engineering Ph.D. program.
3. Candidates who do not meet all the requirements may be admitted with conditional or provisional status. Details of the conditions or provisions required will be provided with the notification of admittance.
4. Before acceptance into the Ph.D. program, potential students may take courses as a non-degree seeking student. Up to 15 credits can be applied to the degree program if they meet curriculum requirements.
5. The applicant must submit an official copy of the Graduate Record Examination (GRE) test scores. The GRE university code for UNLV is 4861. The Mechanical Engineering Department code is 1502. The minimum required score is at or above 75 percentile range in the quantitative reasoning section. The Graduate Program Committee can modify this requirement if necessary. The GRE requirement is waived for students participating in the Integrated BS-PhD track.
6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
7. Admitted students with non-engineering backgrounds will be required to complete a set of courses that will assure successful completion of the Ph.D. specialization and qualify the student to sit for the Fundamentals of Engineering (FE) exam. The Graduate Program Committee or Graduate Coordinator will specify a list of required undergraduate courses that must be completed within the first year. These courses are in addition to those required for the graduate degree.

Post-Master’s Track
1. The applicant must have a Master of Science in Engineering degree or equivalent with a major in mechanical engineering or a closely allied field.
2. A minimum post-baccalaureate GPA of 3.30 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.

Post-Bachelor’s Track

1. The applicant must have a bachelor’s degree in engineering or a closely related discipline.

2. A minimum GPA of 3.50 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.

Integrated BS-PhD Track

The Integrated BS-PhD degree program is designed to provide high-achieving UNLV Mechanical Engineering undergraduate students with the opportunity to take graduate courses that can count toward both the B.S. and Ph.D. ME degree programs at UNLV. This will hopefully encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree. The GRE requirement is waived for students participating in the Integrated BS-PhD track. The following conditions are needed to enroll in the Integrated BS-PhD program:

1. A minimum of two semesters of full-time enrollment in B.S. of Mechanical Engineering program is required.

2. Applications are normally submitted with two semesters remaining in the senior year.

3. A minimum of 90 credit hours of course work applicable to the B.S. of Mechanical Engineering degree with a cumulative GPA of 3.50 or higher must be completed before beginning the joint degree program.

4. Student must submit three letters of recommendation to the Mechanical Engineering Graduate Program Coordinator.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 3: Post-Bachelor’s Track

Subplan 6: Integrated BS-PhD Nuclear Engineering Track

Subplan 1 Requirements: Post-Master’s Track

Total Credits Required: 39

Course Requirements

Required Courses – Credits: 9

Complete 9 credits from any Mechanical Engineering 600- or 700-level courses.

Elective Courses – Credits: 12

Complete 12 credits of 600- or 700-level coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18

ME 799 - Dissertation

Degree Requirements

1. Complete a minimum of 21 credit hours of course work beyond the degree of Master of Science in Engineering (M.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation.

2. Out of the 21 credit hours of course work a minimum of 18 of these credits must be 700-level courses, and no more than 6 credits can be from ME 791 Graduate Independent Study. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.

3. The student’s Doctoral Advisory Committee may add other requirements in accordance with the individual’s background and area of study. No more than 15 non-matriculated credits including transfer credits are allowed.

4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:

1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.

2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.

3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

Graduate Catalog • College of Engineering 307
6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:
   1. Dynamics and Control
   2. Fluid Mechanics
   3. Material Science
   4. Solid Mechanics and Mechanical Design
   5. Thermal Sciences
   6. Nuclear Engineering

   These examinations are prepared by a department committee and based on undergraduate senior level courses. Qualifying exams are held every semester. The first attempt at taking the qualifying exam must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”.
   1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.
   2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

1. The student is advanced to candidacy for the Ph.D. upon completion of all course work, the Qualifying Exam and the Preliminary Exam.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Master’s Nuclear Engineering Track

Total Credits Required: 39

Course Requirements

Required Courses – Credits: 9

Students in the Nuclear Engineering concentration must take three courses (9 credits) from the following list:

- ME 655 - Fundamentals of Nuclear Engineering
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 711 - Advanced Thermodynamics
- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 757 - Radiation Monitoring and Safeguards Systems
- ME 758 - Accelerator Applications in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle
- ME 762 - Nuclear Power Engineering
- ME 763 - Nuclear Reactor Analysis
- HPS 602 - Radiation Detection
- HPS 603 - Radiation Physics and Instrumentation Laboratory
- HPS 701 - Applied Nuclear Physics
- HPS 703 - Radiation Interactions and Transport
- HPS 719 - Introduction to Radioanalytical Chemistry
- HPS 720 - Radiation Dosimetry
- HPS 730 - Advanced Radiation Biology

Elective Courses – Credits: 12

Complete 12 credits of 600- or 700-level coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18

- ME 799 - Dissertation

Degree Requirements

1. Complete a minimum of 21 credit hours of course work beyond the degree of Master of Science in Engineering (M.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation.

2. Out of the 21 credit hours of course work a minimum of 18 of these credits must be 700-level courses, and no more than 6 credits can be from ME 791 Graduate Independent Study. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.
3. The student’s Doctoral Advisory Committee may add other requirements in accordance with the individual’s background and area of study. No more than 15 non-matriculated credits including transfer credits are allowed.

4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:
   1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:
   1. Dynamics and Control
   2. Fluid Mechanics
   3. Material Science
   4. Solid Mechanics and Mechanical Design
   5. Thermal Sciences
   6. Nuclear Engineering
   These examinations are prepared by a department committee and based on undergraduate senior level courses. Qualifying exams are held every semester. The first attempt at taking the qualifying exam must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

   1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”.
      1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.
      2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s Track

Total Credits Required: 63

Course Requirements

Required Courses – Credits: 18
Complete 18 credits from any Mechanical Engineering 600- or 700-level courses.

Elective Courses – Credits: 27
Complete 27 credits of 600- or 700-level coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18
   · ME 799 - Dissertation

Degree Requirements

1. Complete a minimum of 45 credit hours of course work beyond the degree of Bachelor of Science in Engineering (B.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation. Students on academic probation may be transferred to the M.S.M.E. Program depending on the student’s academic record.

2. Out of the 45 credit hours of course work, a minimum of 33 credits must be in 700-level courses, and no more than 9 credits can be from ME 791 Graduate Independent Study. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.

3. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study. No more than 15 non-matriculated credits including transfer credits is allowed.
4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:
   1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:
   1. Dynamics and Control
   2. Fluid Mechanics
   3. Material Science
   4. Solid Mechanics and Mechanical Design
   5. Thermal Sciences
   6. Nuclear Engineering
   These examinations are prepared by a department committee and based on undergraduate senior level courses. Qualifying exams are held every semester. The qualifying exams must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”.

1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.

2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

   1. The student is advanced to candidacy for the Ph.D. upon completion of all course work, the Qualifying Exam and the Preliminary Exam.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 4 Requirements: Post-Bachelor’s Nuclear Engineering Track

Total Credits Required: 63

Course Requirements

Required Courses – Credits: 18
Students in the Nuclear Engineering concentration must take three courses (9 credits) from the following list:
- ME 655 - Fundamentals of Nuclear Engineering
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 711 - Advanced Thermodynamics
- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle
- ME 762 - Nuclear Power Engineering
- ME 763 - Nuclear Reactor Analysis
- HPS 602 - Radiation Detection
- HPS 603 - Radiation Physics and Instrumentation Laboratory
- HPS 607 - Radiation Physics and Instrumentation Laboratory
- HPS 701 - Applied Nuclear Physics
- HPS 703 - Radiation Interactions and Transport
- HPS 719 - Introduction to Radioanalytical Chemistry
- HPS 720 - Radiation Dosimetry
- HPS 730 - Advanced Radiation Biology

Elective Courses – Credits: 27
Complete 27 credits of 600- or 700-level coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18
- ME 799 - Dissertation

Degree Requirements
1. Complete a minimum of 45 credit hours of course work beyond the degree of Bachelor of Science in Engineering (B.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation. Students on academic probation may be transferred to the M.S.M.E. Program depending on the student’s academic record.

2. Out of the 45 credit hours of course work, a minimum of 33 credits must be in 700-level courses, and no more than 9 credits can be from ME 791 Graduate Independent Study. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.

3. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study. No more than 15 non-matriculated credits including transfer credits is allowed.

4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:
   1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:
   1. Dynamics and Control
   2. Fluid Mechanics
   3. Material Science
   4. Solid Mechanics and Mechanical Design
   5. Thermal Sciences

   Nuclear Engineering
   These examinations are prepared by a department committee and based on undergraduate senior level courses. Qualifying exams are held every semester. The qualifying exams must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”.
   1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.
   2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

1. The student is advanced to candidacy for the Ph.D. upon completion of all course work, the Qualifying Exam and the Preliminary Exam.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Integrated BS-PhD Track
Total Credits Required: 54-60
Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the Ph.D. degree.

Course Requirements
Required Courses – Credits: 18
Complete 18 credits from any Mechanical Engineering 600- or 700-level courses.
Elective Courses – Credits: 18-24

Complete 18-24 credits of 600- or 700-level coursework from within the College of Engineering. The total number of credits depends on the number of graduate credits taken toward the student’s B.S. degree. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18
· ME 799 - Dissertation

Degree Requirements

1. Complete a minimum of 36-42 credit hours of course work beyond the degree of Bachelor of Science in Engineering (B.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. The exact number of credits needed depends on the number of graduate credits applied toward the students' B.S. degree. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation. Students on academic probation may be transferred to the M.S.M.E. Program depending on the student’s academic record.

2. Out of the 36-42 credit hours of course work, a minimum of 33 credits must be in 700-level courses, and no more than 9 credits can be from ME 791 Graduate Independent Study. Students who took 700-level courses toward their B.S. degree can count these credits toward the required total of 33 700-level credits. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.

3. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study. No more than 15 non-matriculated credits including transfer credits is allowed.

4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:
   1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:
   1. Dynamics and Control
   2. Fluid Mechanics
   3. Material Science
   4. Solid Mechanics and Mechanical Design
   5. Thermal Sciences
   6. Nuclear Engineering

   These examinations are prepared by a department committee and based on undergraduate senior level courses. Qualifying exams are held every semester. The qualifying exams must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”:
   1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.
   2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

1. The student is advanced to candidacy for the Ph.D. upon completion of all course work, the Qualifying Exam and the Preliminary Exam.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 6 Requirements: Integrated BS-PhD Nuclear Engineering Track

Total Credits Required: 54-60

Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the Ph.D. degree.
Course Requirements

Required Courses – Credits: 18

Complete 9 credits from any Mechanical Engineering 600- or 700-level courses and an additional 9 credits from the following list of courses:

- ME 655 - Fundamentals of Nuclear Engineering
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 711 - Advanced Thermodynamics
- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle
- ME 762 - Nuclear Power Engineering
- ME 763 - Nuclear Reactor Analysis
- HPS 602 - Radiation Detection
- HPS 603 - Radiation Physics and Instrumentation Laboratory
- HPS 701 - Applied Nuclear Physics
- HPS 703 - Radiation Interactions and Transport
- HPS 719 - Introduction to Radioanalytical Chemistry
- HPS 720 - Radiation Dosimetry
- HPS 730 - Advanced Radiation Biology

Elective Courses – Credits: 18-24

Complete 18-24 credits of 600- or 700-level coursework from within the College of Engineering. The total number of credits depends on the number of graduate credits taken toward the student’s B.S. degree. Courses from outside the College of Engineering may be taken with advisor approval.

Dissertation – Credits: 18

- ME 799 - Dissertation

Degree Requirements

1. Complete a minimum of 36-42 credit hours of course work beyond the degree of Bachelor of Science in Engineering (B.S.) or equivalent with an overall minimum GPA of 3.20 and a minimum GPA of 2.70 (B-) in each class. The exact number of credits needed depends on the number of graduate credits applied toward the students’ B.S. degree. Ph.D. candidates who do not maintain this GPA requirement will be placed on probation. Students on academic probation may be transferred to the M.S.M.E. Program depending on the student’s academic record.

2. Out of the 36-42 credit hours of course work, a minimum of 33 credits must be in 700-level courses, and no more than 9 credits can be from ME 791 Graduate Independent Study. Students who took 700-level courses toward their B.S. degree can count these credits toward the required total of 33 700-level credits. In addition to these course requirements, a minimum of 18 credits of Dissertation is required.

3. The student’s doctoral advisory committee may add more requirements in accordance with the individual’s background and field of study. No more than 15 non-matriculated credits including transfer credits is allowed.

4. The student must identify a Dissertation Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Doctoral Advisory Committee that includes at least five members:

1. One Dissertation Advisor. A student may have two co-Advisors but they count as one committee member.

2. Three Mechanical Engineering Department faculty members. At the discretion of the Dissertation Advisor and student, one of these three can be from a relevant supporting field outside of the department or university.

3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

5. The program of study must be submitted by the second semester of study. The program of study is to be prepared by the student and his/her doctoral advisor, and must be approved by the student’s Doctoral Advisory Committee and the GPC.

6. The student must pass a written Qualifying Exam consisting of two sections, Mathematics and a Major subject area chosen from the following list:

1. Dynamics and Control
2. Fluid Mechanics
3. Material Science
4. Solid Mechanics and Mechanical Design
5. Thermal Sciences
6. Nuclear Engineering These examinations are prepared by a department committee and
based on undergraduate senior level courses. Qualifying exams are held every semester. The qualifying exams must be scheduled during the first year of study. They can be taken a maximum of two times. Failure to take the exam within the first year or failure to pass the exam in the second attempt will automatically result in terminating the student from the program.

1. Students must submit a written report to their Doctoral Advisory Committee consisting of a relevant literature review, dissertation research objectives, and outline of planned work to meet those objectives. The student must also present this proposal to their committee and be prepared to discuss and defend their objectives and plan. This report and presentation is known as the “Preliminary Exam”.
   1. The Preliminary Exam must be scheduled within one semester of passing the Qualifying Exam.
   2. The Preliminary Exam can be taken only once per semester but may be repeated until passed.

1. The student is advanced to candidacy for the Ph.D. upon completion of all course work, the Qualifying Exam and the Preliminary Exam.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Biomedical Engineering

Plan Description

The objective of the M.S.B.E. degree program is to provide a graduate-level educational experience that will prepare individuals to undertake design and research in the area of biomedical engineering. The program is multidisciplinary and integrates knowledge from the traditional engineering sciences, the life sciences, and medicine.

Specific goals of the program include development of:

1. A thorough grounding in the life sciences;
2. Mastery of engineering tools and approaches;
3. Familiarity with the problems of making and interpreting quantitative measurements of living systems;
4. The ability to use modeling techniques; and
5. The ability to formulate and solve problems with medical relevance, including the design of devices, systems, and processes to improve human health.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to the general requirements for admission to the Graduate College, an applicant for the M.S. program must complete the following requirements:

1. Applicants must complete the on-line process in the Grad Rebel Gateway system.
2. Mechanical Engineering applicants must provide two additional items while completing the process in the Grad Rebel Gateway system:
   1. A written statement of purpose indicating interests and objectives in working toward a M.S. degree.
   2. Two letters of recommendation using the online recommendation system. There is no specified format. Each letter should detail the potential of the applicant for success in a Mechanical Engineering M.S. program.
3. The applicant must have a bachelor’s degree in engineering or a closely related discipline. Admitted students with non-engineering backgrounds will be required to complete a set of course work requirements that will assure successful completion of the M.S. specialization and qualify the student to sit for the Fundamentals of Engineering (FE) exam. The Graduate
Program Committee or Graduate Coordinator will specify a list of required undergraduate courses that must be completed within the first year. These courses are in addition to those required for the graduate degree.

4. The applicant must submit an official copy of the Graduate Record Examination (GRE) test scores. The GRE university code for UNLV is 4861. The Mechanical Engineering Department code is 1502. The minimum required score is at or above 70 percentile range in the quantitative reasoning section. The Graduate Program Committee can modify this requirement if necessary. The GRE requirement is waived for students participating in the Integrated BS-MS track.

5. The GPC will examine the applicant’s academic record and will make the final determination of the applicant’s admissibility to the M.S. program. In general, a minimum post baccalaureate GPA of 3.00 on a 4.00 scale or equivalent is required for admission in addition to a GPA of 3.00 on a 4.00 scale or equivalent in all engineering courses.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students who have not taken at least three of the courses listed below (or their equivalent), will be required to do so in addition to course requirements listed below.

BIO 209 – Introduction to Cell Biology
BIO 360 – Mammalian Physiology
CHE 225 – Organic Chemistry I
BIOL 209 – Introduction to Cell Biology
BIOL 223 – Human Anatomy and Physiology I
BIOL 480 – Introduction to Biological Modeling
CHEM 220 – Introductory Organic Chemistry
CHEM 474 – Biochemistry I
CHEM 478 – Endocrinology
MATH 283 – Calculus III
MATH 427 – Differential Equations I
MATH 431 – Mathematics for Engineers and Scientists I
STAT 463 – Applied Statistics for Engineers
ME 301 – Structure and Properties of Solids
ME 302 – Material Mechanics
ME 311 – Engineering Thermodynamics
ME 314 – Introduction to Heat Transfer
ME 380 – Fluid Dynamics for Mechanical Engineers
ME 402 – Computational Methods for Engineers
ME 421 – Automatic Controls
ME 425 – Robotics

The Integrated BS-MS degree program is designed to provide high-achieving UNLV Mechanical Engineering undergraduate students with the opportunity to take graduate courses that can count toward both the B.S. and M.S. ME degree programs at UNLV. This will hopefully encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree. The GRE requirement is waived for students participating in the Integrated BS-MS track. The following conditions are needed to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Mechanical Engineering program is required.
2. Applications are normally submitted with two semesters remaining in the senior year.
3. A minimum of 90 credit hours of course work applicable to the B.S. of Mechanical Engineering degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.
4. Student has to choose the thesis option.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan I Requirements: Non-Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 27
Complete 27 credits of advisor-approved common core introductory biomedical engineering and health science courses.

Design Project – Credits: 3
· ME 796 - Design Project in Mechanical Engineering

Degree Requirements

1. Requires 30 credits of approved graduate courses. At least 18 credits must be earned from 700-level courses, and 15 credits must be in engineering.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.
4. Courses numbered below 600 do not count toward the hours required for the M.S. degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. Successfully complete a design project.

Subplan 2 Requirements: Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 24
Complete 24 credits of advisor-approved common core introductory biomedical engineering and health science courses.

Thesis – Credits: 6
- ME 797 - Thesis in Mechanical Engineering

Degree Requirements

1. Requires 24 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 30 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.

2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

4. Courses numbered below 600 do not count toward the hours required for the M.S. degree.

5. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.

3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Integrated BS-MS Track

Total Credits Required: 21-27

Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the M.S. degree.

Course Requirements

Required Courses – Credits: 15-21
Complete 15-21 credits of advisor-approved common core introductory biomedical engineering and health science courses.

Thesis – Credits: 6
- ME 797 - Thesis in Mechanical Engineering

Degree Requirements

1. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

2. Requires 15-21 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 21-27 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.

3. Students must make satisfactory progress toward degree completion as defined below:
1. File an approved degree program before the completion of nine credits of coursework.
2. Complete at least six credits of the approved program per calendar year.
3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
4. Courses numbered below 600 do not count toward the hours required for the M.S. degree.
5. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Master of Science - Materials and Nuclear Engineering

Plan Description
The Master of Science degree is intended to provide the student with a solid background in either applied nuclear science and engineering, with an emphasis in used fuel management, criticality, or radiation detection, or material science and engineering, with an emphasis in materials performance. The program consists of two master’s degree tracks: Materials Engineering and Nuclear Engineering. The materials engineering track consists of a core curriculum in material science, metallurgy, and materials performance, which is to be augmented by advanced level classes in corrosion engineering, physical metallurgy, mechanical metallurgy, mechanics of materials, and nuclear materials. The nuclear engineering track consists of a core curriculum in applied nuclear science and engineering, coupled with advanced classes in the student’s sub discipline.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.
In addition to the general requirements for admission to the Graduate College, an applicant for the M.S. program must complete the following requirements:

1. Applicants must complete the on-line process in the Grad Rebel Gateway system.
2. Mechanical Engineering applicants must provide two additional items while completing the process in the Grad Rebel Gateway system:
   1. A written statement of purpose indicating interests and objectives in working toward a M.S. degree.
   2. Two letters of recommendation using the online recommendation system. There is no specified format. Each letter should detail the potential of the applicant for success in this M.S. program.
3. The applicant must have a bachelor’s degree in engineering or a closely related discipline. Admitted students with non-engineering backgrounds will be required to complete a set of courses that will assure successful completion of the M.S. specialization and qualify the student to sit for the Fundamentals of Engineering (FE) exam. The Graduate Program Committee or Graduate Coordinator will specify a list of required undergraduate courses that must be completed within the first year. These courses are in addition to those required for the graduate degree.
4. The applicant must submit an official copy of the Graduate Record Examination (GRE) test scores. The GRE university code for UNLV is 4861. The Mechanical Engineering Department code is 1502. The minimum required score is at or above 70 percentile range in the quantitative reasoning section. The Graduate Program Committee can modify this requirement if necessary. The GRE requirement is waived for students participating in the Integrated BS-MS track.

5. The GPC will examine the applicant's academic record and will make the final determination of the applicant's admissibility to the M.S. program. In general, a minimum post baccalaureate GPA of 3.00 on a 4.00 scale or equivalent is required for admission in addition to a GPA of 3.00 on a 4.00 scale or equivalent in all engineering courses.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The Integrated BS-MS degree program is designed to provide high-achieving UNLV Mechanical Engineering undergraduate students with the opportunity to take graduate courses that can count toward both the B.S. and M.S. ME degree programs at UNLV. This will hopefully encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree. The GRE requirement is waived for students participating in the Integrated BS-MS track. The following conditions are needed to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Mechanical Engineering program is required.
2. Applications are normally submitted with two semesters remaining in the senior year.
3. A minimum of 90 credit hours of course work applicable to the B.S. of Mechanical Engineering degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.
4. Student has to choose the thesis option.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan I Requirements: Non-Thesis Track
Total Credits Required: 30

Course Requirements
Required Courses - Credits: 9
Select one of the following specializations and complete three courses:

Materials Engineering
- ME 622 - Nanomaterials for Energy Applications
- ME 630 - Corrosion Engineering
- ME 646 - Composite Materials
- ME 695 - Special Topics in Engineering
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials
- ME 741 - Energy and Variational Methods in Applied Mechanics I

Nuclear Engineering
- ME 655 - Fundamentals of Nuclear Engineering
- ME 706 - Convective Heat Transfer
- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 757 - Radiation Monitoring and Safeguards Systems
- ME 758 - Accelerator Applications in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle
- ME 762 - Nuclear Power Engineering
- ME 763 - Nuclear Reactor Analysis
- PHYS 631 - Nuclear and Elementary Particle Physics
  Or
- RDCH 701 - Applied Nuclear Physics

Electives - Credits: 18
Complete 18 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Suggested Electives for Materials Engineering Track
- ME 650 - Physical Metallurgy
- ME 670 - Experimental Mechanics of Materials
- ME 742 - Energy and Variational Methods in Applied Mechanics II

Suggested Electives for Nuclear Engineering Track
- ME 615 - Design of Thermal Systems
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 711 - Advanced Thermodynamics

Design Project - Credits: 3
- ME 796 - Design Project in Mechanical Engineering

Degree Requirements
1. Requires 30 credits of approved graduate courses. At least 18 credits must be earned from 700-level courses, and 15 credits must be in engineering.

2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. Successfully complete a design project.

Subplan 2 Requirements: Thesis Track
Total Credits Required: 30

Course Requirements
Required Courses - Credits: 9
Select one of the following specializations and complete three courses:

Materials Engineering
- ME 622 – Nanomaterials for Energy Application
- ME 630 - Corrosion Engineering
- ME 646 - Composite Materials
- ME 695 - Special Topics in Engineering
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials

Nuclear Engineering
- ME 655 - Fundamentals of Nuclear Engineering
- ME 706 - Convective Heat Transfer
- ME 754 - Introduction to Nuclear Criticality Safety
- ME 755 - Nuclear Criticality Safety Engineering
- ME 756 - Monte Carlo Methods in Nuclear Engineering
- ME 757 - Radiation Monitoring and Safeguards Systems
- ME 758 - Accelerator Applications in Nuclear Engineering
- ME 760 - Waste Management And The Nuclear Fuel Cycle
- ME 762 - Nuclear Power Engineering
- ME 763 - Nuclear Reactor Analysis
- PHYS 631 - Nuclear and Elementary Particle Physics

Or
- RDCH 701 - Applied Nuclear Physics

Suggested Electives for Materials Engineering Track
- ME 650 - Physical Metallurgy
- ME 670 - Experimental Mechanics of Materials
- ME 742 - Energy and Variational Methods in Applied Mechanics II

Suggested Electives for Nuclear Engineering Track
- ME 615 - Design of Thermal Systems
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 711 - Advanced Thermodynamics

Suggested Electives for Materials Engineering Track
- ME 622 – Nanomaterials for Energy Application
- ME 630 - Corrosion Engineering
- ME 646 - Composite Materials
- ME 695 - Special Topics in Engineering
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials

Thesis - Credits: 6
- ME 796 - Design Project in Mechanical Engineering

Degree Requirements
1. Requires 24 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 30 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

4. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Integrated BS-MS Track
Total Credits Required: 21-27

Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the M.S. degree.
ME 702 - Computational Fluid Dynamics
ME 705 - Conduction Heat Transfer
ME 707 - Radiation Heat Transfer
ME 708 - Convective Boiling and Condensation
ME 711 - Advanced Thermodynamics

Thesis - Credits: 6
ME 796 - Design Project in Mechanical Engineering

Degree Requirements
1. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.
2. Requires 15-21 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 21-27 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.
3. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
4. Only those courses in which a student received a grade of C or better may be used for graduate credit. Students must comply with Graduate College policy.
5. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Master of Science in Aerospace Engineering

Plan Description
The objectives of the M.S.A.E. degree are to provide a quality graduate educational program that will complement the existing undergraduate and graduate curricula in mechanical engineering. The aerospace graduate program will improve and enhance the capabilities of those students seeking careers in the aerospace field and supporting engineering work for the aerospace and aviation technology community. The majority of students seeking the M.S.A.E. degree will have undergraduate degrees in the fields of mechanical or aerospace engineering, or closely related fields of engineering, applied physics, or applied mathematics; some will already have graduate degrees in the more conventional areas of engineering or the sciences. Those individuals with engineering (as well as physical science) interests will use the M.S.A.E. to develop careers as well as improve their skills in the aerospace and aviation industry. Students enrolling in the program on a full-time basis will likely assist engineering faculty in obtaining sponsored project funding and performing innovative aerospace and aviation engineering research.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
In addition to the general requirements for admission to the Graduate College, an applicant for the M.S. program must complete the following requirements:
1. Applicants must complete the on-line process in the Grad Rebel Gateway system.
2. Mechanical Engineering applicants must provide two additional items while completing the process in the Grad Rebel Gateway system:
   1. A written statement of purpose indicating interests and objectives in working toward a M.S. degree.
   2. Two letters of recommendation using the online recommendation system. There is no specified format. Each letter should detail the potential of the applicant for success in a Mechanical Engineering Ph.D. program.

3. The applicant must have a bachelor’s degree in engineering or a closely related discipline. Admitted students with non-engineering backgrounds will be required to complete a set of course work requirements that will assure successful completion of the M.S. specialization and qualify the student to sit for the Fundamentals of Engineering (FE) exam. The Graduate Program Committee or Graduate Coordinator will specify a list of required undergraduate courses that must be completed within the first year. These courses are in addition to those required for the graduate degree.

4. The applicant must submit an official copy of the Graduate Record Examination (GRE) test scores. The GRE university code for UNLV is 4861. The Mechanical Engineering Department code is 1502. The minimum required score is at or above 70 percentile range in the quantitative reasoning section. The Graduate Program Committee can modify this requirement if necessary. The GRE requirement is waived for students participating in the Integrated BS-MS track.

5. The GPC will examine the applicant’s academic record and will make the final determination of the applicant’s admissibility to the M.S. program. In general, a minimum post-baccalaureate GPA of 3.00 on a 4.00 scale or equivalent is required for admission in addition to a GPA of 3.00 on a 4.00 scale or equivalent in all engineering courses.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The Integrated BS-MS degree program is designed to provide high-achieving UNLV Mechanical Engineering undergraduate students with the opportunity to take graduate courses that can count toward both the B.S. and M.S. ME degree programs at UNLV. This will hopefully encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree. The GRE requirement is waived for students participating in the Integrated BS-MS track. The following conditions are needed to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Mechanical Engineering program is required.
2. Applications are normally submitted with two semesters remaining in the senior year.
3. A minimum of 90 credit hours of course work applicable to the B.S. of Mechanical Engineering degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.
4. Student has to choose the thesis option.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Non-Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9

Complete three of the following courses:

- ME 609 - Turbomachinery
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 774 - Introduction to Theory of Elasticity and Plasticity I
- ME 777 - Application of High-Performance Computing Methods in Science and Engineering
Elective Courses – Credits: 12
Complete 12 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Design Project – Credits: 3
- ME 796 - Design Project in Mechanical Engineering

Degree Requirements
1. Requires 30 credits of approved graduate courses. At least 18 credits must be earned from 700-level courses, and 15 credits must be in engineering.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. Successfully complete a design project.

Subplan 2 Requirements: Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9
Complete three of the following courses:
- ME 609 - Turbomachinery
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I

Core Courses – Credits: 6
Complete two of the following courses:
- ME 704 - Finite Element Applications in Mechanical Engineering
- ME 711 - Advanced Thermodynamics
- ME 717 - Transport Phenomena
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 774 - Introduction to Theory of Elasticity and Plasticity I
- ME 777 - Application of High-Performance Computing Methods in Science and Engineering

Elective Courses – Credits: 9
Complete 9 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Thesis – Credits: 6
- ME 797 - Thesis in Mechanical Engineering

Degree Requirements
1. Requires 24 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 30 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.
4. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
2. Two Mechanical Engineering Department faculty members.

3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Integrated BS-MS Track

Total Credits Required: 21-27

Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the M.S. degree.

Course Requirements

Required Courses – Credits: 9

Complete three of the following courses:

- ME 609 - Turbomachinery
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 711 - Advanced Thermodynamics
- ME 717 - Transport Phenomena
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 774 - Introduction to Theory of Elasticity and Plasticity I
- ME 777 - Application of High-Performance Computing Methods in Science and Engineering

Core Courses – Credits: 6

Complete two of the following courses:

- ME 704 - Finite Element Applications in Mechanical Engineering
- ME 714 - Finite Element Applications in Mechanical Engineering
- ME 715 - Finite Element Applications in Mechanical Engineering
- ME 716 - Finite Element Applications in Mechanical Engineering
- ME 717 - Finite Element Applications in Mechanical Engineering
- ME 718 - Finite Element Applications in Mechanical Engineering
- ME 719 - Finite Element Applications in Mechanical Engineering
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 774 - Introduction to Theory of Elasticity and Plasticity I
- ME 777 - Application of High-Performance Computing Methods in Science and Engineering

Electives – Credits: 0-6

Complete 0-6 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Thesis – Credits: 6

- ME 797 - Thesis in Mechanical Engineering

Degree Requirements

1. Total credits required depends on the total number of approved graduate-level course work taken as technical electives (with a grade of B or better) during the senior year.

2. Requires 15-21 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 21-27 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.

3. Students must make satisfactory progress toward degree completion as defined below:

   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

4. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:

   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Master of Science in Engineering - Mechanical Engineering

Plan Description

The Master of Science degree is designed to give post baccalaureate students a broad understanding of the mechanical engineering field while providing some depth in a specific option area. Option areas include Dynamic Systems and Controls, Fluid and Thermal Sciences, Materials and Mechanics, Engineering Management, Mechanical and Environmental Systems, Nuclear Engineering, and Aerospace Engineering. Applicants who choose the M.S.E. program usually have an interest in more than one aspect of Mechanical Engineering. They are interested in gaining research and/or design experience to become better prepared for the workforce or further graduate study. Graduates from the program have gone to work in a broad range of industries including automotive, aerospace, nuclear, energy, oil, entertainment, HVAC, defense, utilities, and manufacturing. Graduates have also enrolled in some of the top Ph.D. programs in the country.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to the general requirements for admission to the Graduate College, an applicant for the M.S. program must complete the following requirements:

1. Applicants must complete the on-line process in the Grad Rebel Gateway system.

2. Mechanical Engineering applicants must provide two additional items while completing the process in the Grad Rebel Gateway system:
   1. A written statement of purpose indicating interests and objectives in working toward a M.S. degree.
   2. Two letters of recommendation using the online recommendation system. There is no specified format. Each letter should detail the potential of the applicant for success in a Mechanical Engineering M.S. program.

3. The applicant must have a bachelor’s degree in engineering or a closely related discipline. Admitted students with non-engineering backgrounds will be required to complete a set of course work requirements that will assure successful completion of the M.S. specialization and qualify the student to sit for the Fundamentals of Engineering (FE) exam. The Graduate Program Committee or Graduate Coordinator will specify a list of required undergraduate courses that must be completed within the first year. These courses are in addition to those required for the graduate degree.
4. The applicant must submit an official copy of the Graduate Record Examination (GRE) test scores. The GRE university code for UNLV is 4861. The Mechanical Engineering Department code is 1502. The minimum required score is at or above 70 percentile range in the quantitative reasoning section. The Graduate Program Committee can modify this requirement if necessary. The GRE requirement is waived for students participating in the Integrated BS-MS track.

5. The GPC will examine the applicant’s academic record and will make the final determination of the applicant’s admissibility to the M.S. program. In general, a minimum post-baccalaureate GPA of 3.00 on a 4.00 scale or equivalent is required for admission in addition to a GPA of 3.00 on a 4.00 scale or equivalent in all engineering courses.

6. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The Integrated BS-MS degree program is designed to provide high-achieving UNLV Mechanical Engineering undergraduate students with the opportunity to take graduate courses that can count toward both the B.S. and M.S. ME degree programs at UNLV. This will hopefully encourage them to continue with a graduate degree by reducing the time needed for degree completion. Up to nine credit hours of approved graduate-level course work can be taken as technical electives for the grade of B or better during the senior year and those credit hours will be waived for the graduate degree. The GRE requirement is waived for students participating in the Integrated BS-MS track. The following conditions are needed to enroll in the Integrated BS-MS program:

1. A minimum of two semesters of full-time enrollment in B.S. of Mechanical Engineering program is required.
2. Applications are normally submitted with two semesters remaining in the senior year.
3. A minimum of 90 credit hours of course work applicable to the B.S. of Mechanical Engineering degree with a cumulative GPA of 3.3 or higher must be completed before beginning the joint degree program.
4. Student has to choose the thesis option.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan I Requirements: Non-Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9

Select one of the following specializations and complete three courses:

**Dynamic Systems and Controls**
- ME 625 - Robotics
- ME 629 - Computer Control of Machines and Processes
- ME 653 - Mechanical Vibrations
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 746 - Experimental Design and Analysis of Digital Process Control Systems

**Fluid/Thermosciences**
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 703 - Continuum Mechanics
- ME 704 - Finite Element Applications in Mechanical Engineering
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 710 - Transport Phenomena in Bioengineering
- ME 711 - Advanced Thermodynamics
- ME 714 - Computational Aspects of Solar Energy
- ME 717 - Transport Phenomena

**Materials and Mechanics**
- ME 641 - Advanced Mechanical Engineering Design
- ME 643 - Design Techniques in Mechanical Engineering
- ME 646 - Composite Materials
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 742 - Energy and Variational Methods in Applied Mechanics II
- ME 743 - Applied Dynamic Finite Element Analysis

**Engineering Management**
- CEE 609 - Engineering Project Management
- MBA 763 - Leadership, Teams, and Individuals
- MBA 769 - Applied Economic Analysis
- MBA 767 - Market Opportunity Analysis
- MBA 771 - Law and Ethics
- MBA 775 - Data Modeling and Analysis
- ME 626 - Manufacturing Processes
- ME 701 - Advanced Fluid Mechanics II
- ME 727 - Engineering Optimization

Mechanical and Environmental Systems
- ME 618 - Air Conditioning Engineering Systems
- ME 634 - Noise Control
- ME 653 - Mechanical Vibrations
- ME 700 - Advanced Fluid Mechanics I
- ME 706 - Convective Heat Transfer
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II

Nuclear Engineering
- ME 630 - Corrosion Engineering
- ME 655 - Fundamentals of Nuclear Engineering
- ME 656 - Radioactive Waste Management
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation

Aerospace
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I

Electives – Credits: 18

Complete 18 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Design Project – Credits: 3
- ME 796 - Design Project in Mechanical Engineering

Degree Requirements
1. Requires 30 credits of approved graduate courses. At least 18 credits must be earned from 700-level courses, and 15 credits must be in engineering.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.
3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. Successfully complete a design project.

Subplan 2 Requirements: Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9

Select one of the following specializations and complete three courses:

Dynamic Systems and Controls
- ME 625 - Robotics
- ME 629 - Computer Control of Machines and Processes
- ME 653 - Mechanical Vibrations
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 746 - Experimental Design and Analysis of Digital Process Control Systems
Fluid/Thermosciences
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 703 - Continuum Mechanics
- ME 704 - Finite Element Applications in Mechanical Engineering
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 710 - Transport Phenomena in Bioengineering
- ME 711 - Advanced Thermodynamics
- ME 714 - Computational Aspects of Solar Energy
- ME 717 - Transport Phenomena

Materials and Mechanics
- ME 641 - Advanced Mechanical Engineering Design
- ME 643 - Design Techniques in Mechanical Engineering
- ME 646 - Composite Materials
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 742 - Energy and Variational Methods in Applied Mechanics II
- ME 743 - Applied Dynamic Finite Element Analysis

Engineering Management
- CEE 609 - Engineering Project Management
- MBA 763 - Leadership, Teams, and Individuals
- MBA 769 - Applied Economic Analysis
- MBA 767 - Market Opportunity Analysis
- MBA 771 - Law and Ethics
- MBA 775 - Data Modeling and Analysis
- ME 626 - Manufacturing Processes
- ME 701 - Advanced Fluid Mechanics II
- ME 727 - Engineering Optimization

Mechanical and Environmental Systems
- ME 618 - Air Conditioning Engineering Systems
- ME 634 - Noise Control
- ME 653 - Mechanical Vibrations
- ME 700 - Advanced Fluid Mechanics I
- ME 706 - Convective Heat Transfer
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II

Nuclear Engineering
- ME 630 - Corrosion Engineering
- ME 655 - Fundamentals of Nuclear Engineering
- ME 656 - Radioactive Waste Management
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation

Aerospace
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I

Electives – Credits: 15
Complete 15 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Thesis – Credits: 6
- ME 797 - Thesis in Mechanical Engineering

Degree Requirements
1. Requires 24 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 30 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.
2. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

3. Students must comply with Graduate College policy. If progress is not satisfactory, probation and separation may result, in accordance with the rules of the Graduate College.

4. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Integrated BS-MS Track

Total Credits Required: 21-27

Students admitted into this track have taken 3, 6 or 9 credits of graduate level courses that were applied toward their B.S. degree in Mechanical Engineering at UNLV. These credits reduce the total needed to complete the M.S. degree.

Course Requirements

Required Courses – Credits: 9

Select one of the following specializations and complete three courses:

Dynamic Systems and Controls
- ME 625 - Robotics
- ME 629 - Computer Control of Machines and Processes
- ME 653 - Mechanical Vibrations
- ME 725 - Vibrations I
- ME 726 - Vibrations II
- ME 729 - Advanced Robotics
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 746 - Experimental Design and Analysis of Digital Process Control Systems

Fluid/Thermosciences
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 703 - Continuum Mechanics
- ME 704 - Finite Element Applications in Mechanical Engineering
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation
- ME 710 - Transport Phenomena in Bioengineering
- ME 711 - Advanced Thermodynamics
- ME 714 - Computational Aspects of Solar Energy
- ME 717 - Transport Phenomena

Materials and Mechanics
- ME 641 - Advanced Mechanical Engineering Design
- ME 643 - Design Techniques in Mechanical Engineering
- ME 646 - Composite Materials
- ME 732 - Mechanical Metallurgy
- ME 734 - Fracture of Engineering Materials
- ME 741 - Energy and Variational Methods in Applied Mechanics I
- ME 742 - Energy and Variational Methods in Applied Mechanics II
- ME 743 - Applied Dynamic Finite Element Analysis

Engineering Management
- CEE 609 - Engineering Project Management
- MBA 763 - Leadership, Teams, and Individuals
- MBA 767 - Market Opportunity Analysis
- MBA 769 - Applied Economic Analysis
- MBA 771 - Law and Ethics
- MBA 775 - Data Modeling and Analysis
- ME 626 - Manufacturing Processes
- ME 701 - Advanced Fluid Mechanics II
- ME 727 - Engineering Optimization

Mechanical and Environmental Systems
- ME 618 - Air Conditioning Engineering Systems
- ME 634 - Noise Control
- ME 653 - Mechanical Vibrations
- ME 700 - Advanced Fluid Mechanics I
- ME 706 - Convective Heat Transfer
- ME 720 - Acoustics I
- ME 721 - Acoustics II
- ME 725 - Vibrations I
- ME 726 - Vibrations II

Nuclear Engineering
- ME 630 - Corrosion Engineering
- ME 655 - Fundamentals of Nuclear Engineering
- ME 656 - Radioactive Waste Management
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 707 - Radiation Heat Transfer
- ME 708 - Convective Boiling and Condensation

Aerospace
- ME 700 - Advanced Fluid Mechanics I
- ME 701 - Advanced Fluid Mechanics II
- ME 702 - Computational Fluid Dynamics
- ME 705 - Conduction Heat Transfer
- ME 706 - Convective Heat Transfer
- ME 740 - Advanced Dynamics
- ME 741 - Energy and Variational Methods in Applied Mechanics I

Electives – Credits: 6 -12
Complete 6-12 credits of elective coursework from within the College of Engineering. Courses from outside the College of Engineering may be taken with advisor approval.

Thesis – Credits: 6
- ME 797 - Thesis in Mechanical Engineering

Degree Requirements
1. Total credits required depends on the total number of approved graduate-level coursework taken as technical electives (with a grade of B or better) during the senior year.

2. Requires 15-21 credits of approved graduate courses plus six credits of work associated with the master’s level thesis, for a total of 21-27 credits. At least 15 credits must be earned from 700-level courses, and at least 15 credits must be in engineering. The final examination will include a defense of thesis.

3. Students must make satisfactory progress toward degree completion as defined below:
   1. File an approved degree program before the completion of nine credits of coursework.
   2. Complete at least six credits of the approved program per calendar year.
   3. Maintain a grade point average (GPA) of 3.00 on a 4.00 scale with no grades below C. Grades of C- or below are not acceptable.

4. Only those courses in which a student received a grade of C or better may be used for graduate credit. Students must comply with Graduate College policy.

5. The student must identify a Thesis Advisor within the first semester of joining the program. The student, in consultation with their Advisor, will form a Thesis Committee that includes at least four members:
   1. One Thesis Advisor. A student may have two co-Advisors but they count as one committee member.
   2. Two Mechanical Engineering Department faculty members.
   3. One Graduate College representative. The student, in consultation with their Advisor, is responsible for inviting a committee member from within the university but outside the Mechanical Engineering Department. This person is responsible for ensuring consistency and fairness throughout the UNLV graduate programs.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.
CEM 710 - Modular Construction Modular Construction

Credits 3
An overall understanding of modular construction (modularization) concepts including advantages, disadvantages, impediments, industry status, business case process, execution plans, critical success factors, and standardization strategies of modularization. Grading: Letter grade

ME 600 - Intermediate Fluid Mechanics

Credits 3
Basic laws and equations of fluid flow; very viscous flow solutions; boundary layer flows; potential flows; wave phenomena; transport phenomena; turbulence. Notes: This course is crosslisted with ME 400. Credit at the 600-level requires additional work.

ME 602 - Computational Methods for Engineers

Credits 3

ME 609 - Turbomachinery

Credits 3
Types of turbomachines, applications of turbomachines, and performance characteristics. Energy transfer in turbomachines. Fundamentals of turbomachinery. Applications of the principles of fluid mechanics, thermodynamics and aerodynamics to the design and analysis of pumps, fans, blowers, compressors, gas turbines, steam turbines, hydraulic turbines, and wind turbines are incorporated. Prerequisites: ME 311 and ME 380, or equivalent.

ME 612 - Sizing Solar Energy Systems

Credits 3
Sizing and design criteria of solar thermal and photovoltaic systems using various types of software. Prerequisites: Graduate standing.

ME 615 - Design of Thermal Systems

Credits 3
Design of thermal systems and subsystems, especially as they relate to current and new means of energy utilization and power generation; computer simulation and optimization of thermal systems based on performance and economic constraints. Notes: This course is crosslisted with ME 415. Credit at the 600-level requires additional work.

ME 616 - Introduction to Biomechanical Engineering

Credits 3
Fundamental engineering principles in several engineering areas to problems in the biological world. Discussion includes biomechanics of solids, biofluid and transport phenomena, biomaterials, cell and tissue engineering, medical imaging and electrophoresis. Notes: This course is crosslisted with ME 416. Credit at the 600-level requires additional work.

ME 617 - Introduction to Fuel Cell

Credits 3

ME 618 - Air Conditioning Engineering Systems

Credits 3
Analysis and design of air conditioning systems, load calculations, system selection, duct sizing, and controls. Relationships between internal and external environments. Development of economic, functional and energy conserving concepts in air conditioning design. Notes: This course is crosslisted with ME 418. Credit at the 600-level requires additional work.

ME 619 - Advanced HVAC and Energy Conservation Systems

Credits 3
Roomair distribution, Fan and building air distribution, Mass transfer and humidity measurement, Direct contact heat and mass transfer extended surface heat exchangers, Refrigeration, Current energy conservation technologies, computer simulations of dynamic building energy demand. Notes: This course is crosslisted with ME 419. Credit at the 600-level requires additional work.

ME 625 - Robotics

Credits 3
Instruction to basic concept and theory behind motions generated by robot manipulators; kinematics, dynamics, and trajectory generation. Design of basic feedback position controllers and computer simulation techniques of robot dynamics and control system. Notes: This course is crosslisted with ME 425. Credit at the 600-level requires additional work.

ME 626 - Manufacturing Processes

Credits 3
Survey of the principal processes used to cast, form, machine, and join material. Tolerances, statistical quality control, costs, operation sequencing, and design for productivity covered. Research paper on related topic required. Notes: This course is crosslisted with ME 426. Credit at the 600-level requires additional work.

ME 627 - Manufacturing Systems

Credits 3
Study of the ways of organizing people and equipment so that production can be performed more efficiently. Includes production lines design, CIM, GT, FMS, production planning, inventory control and MRP, lean production, JIT, and agile manufacturing. Notes: This course is crosslisted with ME 427. Credit at the 600-level requires additional work.

ME 629 - Computer Control of Machines and Processes

Credits 3
Discrete control theory reduced to engineering practice through comprehensive study of discrete system modeling, system identification and digital controller design. Selected industrial processes and machines utilized as subjects on which computer control is to be implemented. Focuses on the time-domain analysis of the control theory and programming. Notes: This course is crosslisted with ME 429. Credit at the 600-level requires additional work.

ME 630 - Corrosion Engineering

Credits 3
Examination of the fundamental processes of metallic corrosion from the thermodynamic and kinetic points of view. Specific types of corrosion and prevention strategies discussed. Materials selection, design features, and fabrication techniques of corrosion control covered. Notes: This course is crosslisted with ME 430. Credit at the 600-level requires additional work.

ME 634 - Noise Control

Credits 3
Development and solution of one-dimensional wave equation for propagation of sound in air; one-dimensional plane and spherical sound waves; sound transmission phenomena; sound in enclosed spaces; sound propagation outdoors; and human responses to noise. Notes: This course is crosslisted with ME 434. Credit at the 600-level requires additional work.

ME 641 - Advanced Mechanical Engineering Design

Credits 3
Use of advanced concepts in machine design. Notes: This course is crosslisted with ME 441. Credit at the 600-level requires additional work.

ME 643 - Design Techniques in Mechanical Engineering

Credits 3
Computational techniques for use in mechanical engineering design. Emphasis on the use of existing commercial codes for the analysis and design of machine elements and for the study of heat transfer and fluid flow. Notes: This course is crosslisted with ME 443. Credit at the 600-level requires additional work.

ME 646 - Composite Materials

Credits 3
Overview of matrix and fiber systems, processing techniques, anisotropic elasticity, unidirectional lamina, multidirectional laminate theory, failure theories, and design of composite structures. Notes: This course is crosslisted with ME 446. Credit at the 600-level requires additional work.

ME 650 - Physical Metallurgy

Credits 3
This advanced undergraduate course is available for graduate credit.

ME 653 - Mechanical Vibrations

Credits 3
Free and forced response of single-and-multi-degree-of-freedom, lumped parameter systems. Fourier series and Fourier and Laplace transforms. Introduction to vibration of continuous systems and applications. Notes: This course is crosslisted with ME 453. Credit at the 600-level requires additional work.
ME 655 - Fundamentals of Nuclear Engineering  
Credits 3
Fundamentals of nuclear reactor design and analysis of the fission process. Basic health physics, reactor shielding, and nuclear waste management. Calculation of reactor dimensions for criticality. Reactor kinetics and control. Notes: This course is crosslisted with ME 455. Credit at the 600-level requires additional work.

ME 656 - Radioactive Waste Management  
Credits 3
This advanced undergraduate course is available for graduate credit.

ME 660 - High School Mentoring for Engineering Design  
Credits 3
Students help high school teams design robots for the FIRST robotics competition. Weekly meetings discuss: mentoring, design, robotics, organizational skills, and teamwork. Must arrange transport to assigned local high school. Class begins with the international FIRST kick-off meeting usually scheduled for the first Saturday after New Year's Day. Notes: This course is crosslisted with ME 460. Credit at the 600-level requires additional work. Prerequisites: Instructor Consent

ME 662 - Vehicle Design Projects  
Credits 3
Students design and build a vehicle for entry into a national or regional collegiate competition such as Mini-Baja or Human Powered Vehicle. Design topics may include structural analysis, composite materials, aerodynamics, engine performance, occupant safety, drive train, suspension systems, project management, team building, technical report writing, and oral presentations. Notes: This course is crosslisted with ME 462. Credit at the 600-level requires additional work. Prerequisites: Instructor Consent

ME 667 - Solar and Renewable Energy Utilization  
Credits 3
Introduction to renewable energy applications. Includes environmental motivations, historical perspectives, solar photovoltaic and thermal applications, implications in building designs, wind energy, biomass, alternative fuels, geothermal power utilization, utility considerations, and political and economic factors. Formerly: EGG 650

ME 680 - Gas Dynamics I  
Credits 3
Examines the basic concepts and theories associated with compressible fluid flow. Normal and oblique shocks, 1-D analysis, and method of characteristics discussed. Notes: This course is crosslisted with ME 480. Credit at the 600-level requires additional work.

ME 682 - Aerodynamics  
Credits 3
Presents fluid flow concepts leading to the design of flow surfaces and passages to achieve optimum performance over the widest range of significant parameters. Topics include boundary layer theory, lift, airfoil analysis, and numerical methods for fluid mechanics analyses. Notes: This course is crosslisted with ME 482. Credit at the 600-level requires additional work.

ME 695 - Special Topics in Engineering  
Credits 1-4
Outlet for experimental and other topics which may be of current interest. Topics and credits to be announced. May have a laboratory. May be repeated once under different topic. Notes: This course is crosslisted with ME 495. Credit at the 600-level requires additional work.

ME 700 - Advanced Fluid Mechanics I  
Credits 3
Covers area of viscous laminar fluid flow. Presents concept of shear stresses and develops Navier-Stokes equation. Applications such as boundary layer flow studied as are some solutions of viscous fluid flow. Prerequisites: Graduate Standing or Instructor Consent

ME 701 - Advanced Fluid Mechanics II  
Credits 3
Potential flow theory with emphasis on complex representations, conformal mapping, Shwarz Christoffel transformations, airfoils. Compressible flow, free shear layers, shock waves, compressible boundary layers, two- and three- dimensional supersonic flows. Prerequisites: ME 700 or consent of instructor.

ME 702 - Computational Fluid Dynamics  
Credits 3
Application of numerical methods to solve highly nonlinear equations of motion and energy associated with fluid dynamics. Among other methods, finite difference and finite element methods discussed along with use of commercial software packages. Prerequisites: Graduate Standing or Instructor Consent

ME 703 - Continuum Mechanics  
Credits 3
Matrices and tensors, stress deformation and flow, compatibility conditions, constitutive equations, field equations and boundary conditions in fluids and solids, applications in solid and fluid mechanics. Formerly: (CEG 711) Prerequisites: Graduate Standing or Instructor Consent

ME 704 - Finite Element Applications in Mechanical Engineering  
Credits 3
Finite Element Method used historically for structurally related problems. Advances in application and development of Finite Element Method particularly useful in fluid flow and heat transfer related problems. PC, workstation, and mainframe finite element computer codes used to assist students in solving fluid and heat transfer problems. Prerequisites: Graduate Standing or Instructor Consent

ME 705 - Conduction Heat Transfer  
Credits 3
Designed to solve more advanced heat transfer problems by conduction. Analytical and numerical techniques in heat conduction covered. Review of elementary problems presented. Advanced analytical methods using Bessel functions, separation of variables and Laplace transforms, among others. Solutions using finite differences covered. Prerequisites: ME 314 and ME 445 or equivalent or consent of instructor.

ME 706 - Convective Heat Transfer  
Credits 3
Conservation principles, fluid stresses and flux laws, boundary layer equation, laminar and turbulent heat flow inside tubes. Heat transfer in laminar and turbulent boundary layers. Influence of temperature dependent fluid properties and free-convection boundary layers. Prerequisites: Graduate Standing or Instructor Consent

ME 707 - Radiation Heat Transfer  
Credits 3
Advanced engineering analysis of thermal radiation heat transfer. Spectral and gray-body analysis. Exchange of radiation between surfaces and through absorbing, emitting, and scattering media. Radiation combined with conduction and convection. Prerequisites: Graduate Standing or Instructor Consent

ME 708 - Convective Boiling and Condensation  
Credits 3
Basic models, empirical treatments of two-phase flow. Introduction to convective boiling, subcooled boiling, void fraction and pressure drop in subcooled boiling, saturated boiling heat transfer, critical heat flux, condensation. Prerequisites: Graduate Standing or Instructor Consent

ME 710 - Transport Phenomena in Bioengineering  
Credits 3
Transport phenomena in bioengineering at molecular, cellular and tissue levels. Topics include blood flow in large and small vessels, gas exchange in lung, biomass and heat transfer in microcirculation, ion transport across cell membrane, cell migration, renal transport, controlled drug delivery and transport in tumors. Prerequisites: Graduate Standing or Instructor Consent

ME 711 - Advanced Thermodynamics  
Credits 3
Advanced concepts and laws of classical equilibrium thermodynamics as applied to engineering problems. Introduction to statistical thermodynamics. Prerequisites: Graduate Standing or Instructor Consent

ME 714 - Computational Aspects of Solar Energy  
Credits 3
Theory and practice in the design of solar energy components and systems. Included are collectors, concentrators, receivers, storage, and power systems. Emphasis is on the simulation of transient systems. Prerequisites: Graduate Standing or Instructor Consent
ME 717 - Transport Phenomena Credits 3
Momentum, energy, and mass transport at molecular motion, microscopic levels. Momentum flux tensors, heat flux vectors, and mass flux vectors. Transport in laminar or turbulent flow. Transport in isothermal or nonisothermal systems. Transport in single or multicomponent systems. Interface transport and chemical reaction. Prerequisites: Graduate Standing or Instructor Consent

ME 720 - Acoustics I Credits 3
Introduction to wave motion and general solution techniques associated with wave equation; propagation of waves in solid media; one-dimensional acoustic waves, acoustic transmission phenomena, and propagation of sound outdoors. Prerequisites: Graduate Standing or Instructor Consent

ME 721 - Acoustics II Credits 3
Three-dimensional sound waves; experimental measurement techniques associated with acoustics; acoustic filter theory; other advanced topics in acoustics. Prerequisites: ME 720

ME 725 - Vibrations I Credits 3
Vibrations of systems with one-degree-of-freedom and more than one-degree-of-freedom. Methods for finding natural frequencies, discrete systems and continuous systems. Prerequisites: Graduate Standing or Instructor Consent

ME 726 - Vibrations II Credits 3
Virtual work, Hamilton’s principles, Lagrange’s equation, influence coefficients, Green’s function as applied to advanced vibration problems; vibration of continuous systems; modal analysis. Prerequisites: Graduate standing and ME 725.

ME 727 - Engineering Optimization Credits 3
Introduction to optimization, univariate functions, multivariate functions, constrained optimality criteria, penalty method, constrained direct search, engineering case studies, linear programming. Prerequisites: Graduate Standing or Instructor Consent

ME 729 - Advanced Robotics Credits 3
In-depth study of advanced automation concepts and robotic manipulators. Topics including 3-D kinematics, trajectory generation, compliance analysis, dynamic control of robotics along with concept of assembly operations and machine vision. Prerequisites: Graduate standing and ME 725.

ME 732 - Mechanical Metallurgy Credits 3
Behavior and response of metals to applied forces. Five areas covered: mechanical fundamentals, metallurgical fundamentals, materials testing, plastic forming of metals, and modes of failure. Prerequisites: Graduate Standing or Instructor Consent

ME 734 - Fracture of Engineering Materials Credits 3
Stress-strain relationships during elastic and plastic deformation, linear elastic and elastic-plastic fracture mechanics, Griffith’s theory, stress analyses of cracks, plastic zone size, fracture toughness measurements, ductile-to-brittle transition, fatigue failure mechanisms, environment assisted cracking and relevant test methods, metallographic evaluations using state-of-the-art techniques. Prerequisites: Graduate Standing or Instructor Consent

ME 740 - Advanced Dynamics Credits 3
Applications of Lagrangian and Newtonian mechanics to mechanical systems. Includes kinematics, moving reference frames, rigid body dynamics, oscillations and mode forms, and gyroscopic effects. Prerequisites: Graduate Standing or Instructor Consent

ME 741 - Energy and Variational Methods in Applied Mechanics I Credits 3
Governing equations of mechanics, energy and variational principles, variational methods of approximation, theory of elasticity, material laws, work and energy, beam theory, finite element method, structural systems. Prerequisites: Graduate Standing or Instructor Consent

ME 742 - Energy and Variational Methods in Applied Mechanics II Credits 3
Theoretical principles for solving solid mechanics problems. Direct continuation of ME 741. Topics covered include: computational solution methods to governing equations, free vibration and forced response of elastic systems, stability analysis, solution methods to governing equations, free vibration and forced response of elastic systems, stability analysis, solution methods for beams, plates, and structural systems. Prerequisites: ME 741

ME 743 - Applied Dynamic Finite Element Analysis Credits 3
Overview of the development of dynamic computational analysis, software description, modeling techniques, symmetry and boundary conditions, initial conditions, contact algorithms, wave propagation, material behavior, implicit analysis, damping, mass scaling, mesh adaptation, element selection, hourglassing, postprocessing, output control, restarts, parallel processing, Eulerian and ALE methods. Prerequisites: Graduate standing in engineering or consent of instructor.

ME 746 - Experimental Design and Analysis of Digital Process Control Systems Credits 3
Applications, design, and experimental practice of mechanical linear and discrete systems: hydraulic, pneumatic, elastic multibody systems, centripetal and coriolis effects, automatic model and code generation. Discrete nonlinear control systems modeling, simulation, design using state space methods. Aspects of system identification, robust and optimal control. Same as (EGG 746) Prerequisites: Graduate Standing or Instructor Consent

ME 747 - Orthopedic Biomechanics - Lower Extremities and Spine Credits 3
Biomechanics of the lower extremities and spine; engineering properties and physiology of bone, cartilage, and tendon; analysis of gait; effects of orthopedic impairment and injury; design and surgical implantation of prosthetic joints and fracture fixation devices; engineering of tissue regeneration and replacement. Same as (EGG 747) Prerequisites: Graduate standing in engineering or kinesiology or consent of instructor.

ME 750 - Analysis of Human Movement Credits 3
Analysis of the kinematics and kinetics of human movement in two and three dimensions with emphasis on methods used in motion capture, including joint and segment position; acceleration, velocity, force and torque; work and power; and inverse solution methods. Same as (EGG 750) Prerequisites: Graduate standing in engineering or kinesiology or consent of instructor.

ME 754 - Introduction to Nuclear Criticality Safety Credits 3
Review of criticality accidents, overview of the physics of criticality, factors that affect reactivity, experiments and the development of subcritical limits, standards and regulations, hand calculation techniques, engineering and evaluations for criticality safe processes and facilities. Prerequisites: ME 455, ME 655 or equivalent or consent of instructor.

ME 755 - Nuclear Criticality Safety Engineering Credits 3
Nuclear engineering for criticality safe processes and facilities: in-depth physics of criticality, hand calculation techniques, Monte Carlo applications, experimental development of subcritical limits; nuclear criticality accidents, anomalies and case studies; nuclear data/benchmarking, standards and regulations, etc. Practical engineering examples/case studies and the preparation of a nuclear criticality safety evaluation. Prerequisites: ME 754 or equivalent or consent of instructor.

ME 756 - Monte Carlo Methods in Nuclear Engineering Credits 3
Theory and application of the Monte Carlo method for neutron transport calculations from introductory concepts to advanced simulations of criticality in fissile materials. Computer applications in nuclear engineering; verification and validation (V&V), nuclear data files, examples of Monte Carlo calculations, case studies and applied problems. Prerequisites: ME 455, ME 655 or equivalent or consent of instructor.
ME 757 - Radiation Monitoring and Safeguards Systems
Credits 3
Advanced topics in radiation measurement science, remote sensing, nondestructive assay techniques, and nuclear material safeguards. Use of radiation detection systems in process monitoring and safeguards, and in security applications. Prerequisites: ME 4585/655, or consent of instructor.

ME 758 - Accelerator Applications in Nuclear Engineering
Credits 3
Fundamental concepts of particle accelerators. Radiation beams and targets. Advanced topics in accelerator applications in engineering, security, isotope production, transmutation, nondestructive assay, material analysis, biology and medicine. Prerequisites: ME 4585/655, or consent of instructor.

ME 760 - Waste Management And The Nuclear Fuel Cycle
Credits 3
Introduction to the nuclear fuel cycle and management of nuclear waste. Introduction to repository design and performance assessment. Overview of waste form performance, contaminant transport, and risk assessment as applied to nuclear waste management. Prerequisites: HPS 701 or consent of instructor.

ME 762 - Nuclear Power Engineering
Credits 3
Analysis of the conversion of energy generated by fission, fusion, or radioactive decay into electrical power and propulsion. Theory of reactor heat generation and removal and new reactor concepts. Review of thermodynamic cycles used in pressurized and boiling water reactors, gas-cooled and liquid metal reactors. Prerequisites: ME 311, ME 314, ME 455 or ME 655 or equivalent

ME 763 - Nuclear Reactor Analysis
Credits 3
Development of the neutron diffusion equation with application to the design of steady state nuclear reactors. Derivation of critical core dimensions for single energy and multienergy neutron groups. Determination of group constants for thermal and fast neutrons. Unsteady reactor dynamics and criticality control. Introduction to Monte Carlo techniques. Prerequisites: ME 455 or ME 655

ME 765 - Neutron Detection and Production
Credits 3
Content includes passive and active neutron detection using He3 and BF3 ionization/proportional tubes, liquid and plastic scintillators, fission chambers, and activation foils. The course includes laboratory exercises. Pulsed and continuous sources will be covered including fission reactors, accelerator production through fusion, spallation, photonuclear effects, and [alpha, n] reactions. Prerequisites: ME 455/655 or equivalent.

ME 774 - Introduction to Theory of Elasticity and Plasticity I
Credits 3
Introduction to theoretical and applied elasticity and plasticity theory-solutions to engineering problems in structural mechanics and geotechnical engineering. Response of isotropic, orthotropic and layered media to applied stresses and strains. Prerequisites: Graduate Standing or Instructor Consent

ME 777 - Application of High-Performance Computing Methods in Science and Engineering
Credits 3
Application of high performance computing systems to science and engineering, models for numerically intensive problem solving, high performance numerical algorithms, FORTRAN 90 and high-performance FORTRAN. Same as (MAT 777) Prerequisites: Knowledge of UNIX, FORTRAN, and previous course on numerical methods. Graduate standing.

ME 791 - Independent Study in Mechanical Engineering
Credits 1 – 3
Independent study of a selected mechanical engineering topic. Notes: May be repeated to a maximum of three credits for M.S. programs, six credits for Ph.D. program (post-M.S.), and nine credits for Ph.D. program (post-B.S.). Prerequisites: Graduate standing in mechanical engineering and consent of instructor.

ME 795 - Advanced Topics in Mechanical Engineering
Credits 1 – 6
Outlet for experimental and other advanced topics which may be of current interest. Notes: Topics and credits to be announced. May have a laboratory. May be repeated to a maximum of six credits.

ME 796 - Design Project in Mechanical Engineering
Credits 1 – 3
Synthesis course involving students in the design process from analysis and proposal to solution. Notes: May be repeated to a maximum of three credits. Prerequisites: Graduate standing in mechanical engineering and consent of instructor.

ME 797 - Thesis in Mechanical Engineering
Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the program. Grading: S/F grading only. Prerequisites: Graduate standing in mechanical engineering.

ME 799 - Dissertation
Credits 1 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated to a maximum of 18 credits allowed toward the degree. Grading: S/F grading only. Prerequisites: Graduate standing in Ph.D. program and consent of advisor.
College of Fine Arts

The graduate programs in the College of Fine Arts are considered among the very best in the country. Indeed, several programs are considered the “best!” The deserved reputations of these discrete programs are based largely on the excellent graduate faculty, which consists of highly trained artists and educators of national stature. We have designed all graduate programs, at the professional level, to prepare students to compete aggressively in their chosen fields. Thanks to an excellent artist-in-residence program, our students are exposed to, and work with, professionals who regularly visit the college. Certain faculty members of the programs have developed relationships with the best professional outlets in their areas, allowing students to work and interact with professionals prior to graduation.

The College of Fine Arts is committed to excellence in the classroom in conjunction with practical experience, which hones the skills and talents of its students. An excellent faculty, excellent facilities, excellent connections to the professions, and excellent students all contribute to a fast-growing college that can enhance careers and help dreams become realities.

Nancy J. Uscher, Ph.D., Dean, College of Fine Arts
Sean Clark, MFA, Vice Dean, College of Fine Arts

College Information
DAN 790 - Independent Study Credits 1 - 3
Independent Study Notes: May be repeated to a maximum of six credits. Grading: Letter grade

School of Architecture

The School of Architecture offers a NAAB-accredited Master of Architecture professional degree (M. Arch), a Master of Healthcare Interior Design post-professional degree (MHID), and a Graduate Certificate in Hospitality Design.

The SoA is an outward-looking school that values its diversity and cutting-edge explorations, and allows for a wide range of design approaches; a contemporary school that is highly engaged with industry, governmental and community; a school where principles of sustainability are embedded in all of our concerns, course, studios, and activities; and a vibrant school that is anchored in the unique locality of the Southern Nevada region.

We offer a transformative experience, generating meaningful knowledge and stimulating discovery through creative thinking and practice.

Our Core Values:
Integrity – To make informed decisions and act ethically and with fairness.
Respect – To listen and act professionally with courtesy and consideration of others.
Collaboration – To work together to advance creativity and innovation across disciplines.
Innovation – To be dedicated to discovery and communication of breakthrough and new ideas.
Sustainability – To prepare the next generation to lead our society toward a more sustainable future.

The School of Architecture is fortunate to offer students a range of research labs that enhance the graduate experience. The structure of the labs ensures a supportive research culture that facilitates industry engagement and positive impact from our research outputs. Research and innovation activities in the SoA are organized in 7 theme-based Labs which define our priority research concentrations.

Steffen Lehmann, Ph.D., Director of the School of Architecture
Josh Vermillion, M. Arch., Graduate Coordinator

Architecture Faculty

Director

Graduate Coordinator
Vermillion, Josh - Full Graduate Faculty Assistant Professor; B.S. and B. Arch, Ball State University; M. Arch (Post-Professional), Ball State University. Rebel since 2013.
Graduate Certificate in Hospitality Design

Plan Description

Hospitality Design Leaders from Las Vegas based architecture firms (responsible for designing most of the resorts on the Las Vegas Strip and countless other national/international projects) are collaborating with UNLV School of Architecture (SoA) to offer a graduate concentration in Hospitality Design/Entertainment Architecture. This concentration allows students to engage and learn from industry leaders and investigate the issues that shape this dynamic international design industry. For qualified applicants including international students, practitioners in disciplines related to hospitality design, and students already holding an accredited architecture degree, SoA would like to announce the HD Certificate.

The HD Certificate program is an intensive one year course of study. To earn the certificate, students must engage in design/research under the guidance of faculty with diverse expertise and professionals with several years of experience, successfully defend their work before a panel of design critics, and demonstrate their ability to generate original material relevant to the profession and/or academia by completing a publishable work.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Hospitality Design (HD) Certificate applicants must meet the following minimum qualifications for consideration of admission to the HD Certificate program: an undergraduate degree, a strong design or research background, and professional or internship experience in the hospitality industry.

Applicants must submit a portfolio of original work (specify exact role on work generated in collaborative settings) and a one page letter of intent that describes their design and/or research agenda to be developed. Each year, the HD Concentration’s coordinator must receive student applications to the HD Certificate Program by July 1 in order to conduct the admissions process and make preparations for design-research proposals.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

Total Credits Required: 21

Course Requirements

Required Courses – Credits: 9

- AAE 775 - Tourist Facility Design and Development
- AAE 789 - Architecture Research Studio

Elective Course – Credits: 3

Complete 3 credits of advisor-approved elective coursework.

Hospitality Elective Course – Credits: 3

Complete 3 credits from the following list of courses, or another advisor-approved course:

- HOA 739 - Psychology of Hospitality Marketing
- HOA 797 - Philosophy of Science in Hospitality Research
- HOA 574 - Seminar in Hotel Research
- SLS 718 - Programming for Sport and Leisure Service Organizations

Project Design Course – Credits: 6

- AAE 790 - Professional Project Design

Certificate Requirements

1. Completion of a minimum of 21 credit hours with a minimum GPA of 3.00.
2. Ideally, students take one elective in the fall semester and one elective in the spring while they are engaged in independent design research projects focusing on hospitality design/entertainment architecture issues.
3. The Project Design course will be conducted as a design research project guided by the Hospitality Design Concentration Coordinator. The culminating experience must include successful defense of design/research presentation to the student’s critics and the submission of the work (or component thereof) to a refereed conference, journal, or equivalent.

Plan Certificate Completion Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. The student must successfully complete and defend his/her final project.

Master of Architecture

This program is accredited by: NAAB. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The School of Architecture offers an NAAB accredited Master of Architecture professional degree (M. Arch). The M. Arch. program has the goals of developing students’ abilities to conceive and accurately represent environmentally sound and aesthetically fitting spaces at different scales and to provide a basis for understanding the consequences that these spaces have for their inhabitants, for society, and for the environment. The program supports critical thinking, design research, and paths toward licensure through award-winning faculty, world-class facilities, and a one-of-a-kind living laboratory (The Great Basin, Mojave Desert, Las Vegas, The Strip, and some of Earth’s most engaging environments). The program serves its students, the profession, the state, and a diverse global community with studies focused on the built environment of a sustainable future.

Accreditation

In the United States, most registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit professional degree programs in architecture offered by institutions with U.S. regional accreditation, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted an eight-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may require a preprofessional undergraduate degree in architecture for admission. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The University of Nevada, Las Vegas, School of Architecture, offers the following NAAB-accredited degree programs:

- M. Arch. (pre-professional degree + 48 graduate credits)
- M. Arch. (non-preprofessional degree + 48-96 credits)

Next accreditation visit for all programs: 2025

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Each Master of Architecture program applicant must hold a baccalaureate or graduate degree from a regionally accredited college or international equivalent. Applicants must have a cumulative undergraduate GPA of 3.00 or higher. Applicants are also required to submit a design portfolio for review, a statement of intent, two letters of reference, and GRE scores of 146 or higher in the verbal section and 148 or higher in the quantitative
The combined GRE score of these two sections may be no less than 294. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The Master of Architecture program offers prospective students two paths:

1. For applicants holding a Bachelor of Science in Architecture (BS Arch), or its equivalent, the program offers a two-year degree path in the 4+2 program.
2. For applicants with academic backgrounds outside of architecture or holding a Bachelor of Arts in Architecture, the program offers an alternative path through the 3 year plus degree program. The duration of the 3+ path varies based on an individual student’s academic background and preparation. Each student applying for admission will be individually assessed and provided a course of study.

Interested applicants can find detailed information about the Master of Architecture program directly from the School of Architecture’s web site.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: 4+2 Hospitality & Entertainment Design Track

Total Credits Required: 48

Course Requirements

Required Courses – Credits: 30
- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- AAE 789 - Architecture Research Studio
- ABS 741 - Integrated Building Systems

Elective Courses – Credits: 12
Complete 12 credits of advisor-approved course work.

Professional Project – Credits: 6
- AAE 790 - Professional Project Design

Degree Requirements

1. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.
2. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.
3. Students are required to declare a subplan by the end of their first year.
4. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.
5. The student must successfully complete a Professional Project developed as part of the Professional Project Design course. The Professional Project should address a significant architectural problem and demonstrate a comprehensive design solution. The requirements and evaluation of this project will be determined by the instructor of the course.
6. The student is required to present his/her Professional Project to the School of Architecture Graduate Committee.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a Professional Project.

Subplan 2 Requirements: 4+2 Education Facilities Research & Design Track

Total Credits Required: 48

Course Requirements

Required Courses – Credits: 30
- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- AAE 789 - Architecture Research Studio
- ABS 741 - Integrated Building Systems
Elective Courses – Credits: 12
Complete 12 credits from the following list of courses or other advisor-approved courses:

- CIG 603 - Urban Education
- CIE 683 - Elementary Classroom Management
- CIG 761 - Theoretical Foundations of Education
- CIG 764 - Models of Teaching
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CIG 782 - School Climate
- CIS 686 - Curriculum Development Secondary Education
- CIT 607 - Technology and Computational Thinking
- CIT 772 - Technology in Teacher Education
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
- ESP 775 - Strategies for Early Childhood Special Education
- ESP 777 - Assistive Technology Strategies for Young Children
- ESP 786 - Legal and Political Issues in Special Education Programming
- ESP 752 - Consultative Techniques in Special Education
- ESP 771 - Perspectives on Early Childhood Special Education
- ESP 764 - Characteristics & Inclusive Strategies for Students with LD, ED, & MID

Professional Project – Credits: 6
- AAE 790 - Professional Project Design

Degree Requirements
1. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.

2. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.

3. Students are required to declare a subplan by the end of their first year.

4. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.

5. The student must successfully complete a Professional Project developed as part of the Professional Project Design course. The Professional Project should address a significant architectural problem and demonstrate a comprehensive design solution. The requirements and evaluation of this project will be determined by the instructor of the course.

6. The student is required to present his/her Professional Project to the School of Architecture Graduate Committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a Professional Project.

Subplan 3 Requirements: 4+2 Building Systems & Sustainability Track
Total Credits Required: 48

Course Requirements
Required Courses – Credits: 24
- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- ABS 741 - Integrated Building Systems

Elective Courses – Credits: 18
Complete 18 credits of advisor-approved elective coursework.

Thesis – Credits: 6
- AAE 791 - Thesis Writing

Degree Requirements
1. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.

2. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.
3. Students are required to declare a subplan by the end of their first year.

4. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.

5. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

6. The master’s thesis will have to focus on an area of concentration approved by the student’s Thesis Advisory Committee and supported by elective course work related to the selected concentration subject. The student should register for thesis credits during the last year in the program.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit a bound copy of his/her thesis to the student’s Thesis Advisory Committee chair and to the Architecture Studies Library. The school reserves the right to retain any or all student projects for the program’s future use and exhibition.

4. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: 3+ Hospitality & Entertainment Design Track

Total Credits Required: 96

Course Requirements

Preparatory Architecture Courses – Credits: 27

- AAE 555 - The Enlightenment to Mid-20th Century: Arch His and Theory
- AAE 651 - Multidiscipline Theory and Analysis in Architecture

Preparatory Building Science Courses – Credits: 18

- ABS 521 - Construction Technologies I
- ABS 522 - Construction Technologies II
- ABS 531 - Environmental Control Systems I
- ABS 532 - Environmental Control Systems II
- ABS 541 - Structures for Architects I
- ABS 640 - Structures For Architects II

Preparatory Concentration Elective Course – Credits: 3

Complete 3 credits of an advisor-approved concentration elective course.

Preparatory Clinical Internship – Credits: 0

- AAD 600 - Clinical Internship

Required Courses – Credits: 30

- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- AAE 789 - Architecture Research Studio
- ABS 741 - Integrated Building Systems

Elective Courses – Credits: 12

Complete 12 credits of advisor-approved course work.

Professional Project – Credits: 6

- AAE 790 - Professional Project Design

Degree Requirements

1. Students are required to complete preparatory work before proceeding to the final four semesters of the program. The duration and total credits required for the program vary based on an individual student’s academic background and preparation. Each student will be individually assessed to determine these preparatory requirements.

2. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.
3. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.

4. Students are required to declare a subplan by the end of their first year.

5. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.

6. The student must successfully complete a Professional Project developed as part of the Professional Project Design course. The Professional Project should address a significant architectural problem and demonstrate a comprehensive design solution. The requirements and evaluation of this project will be determined by the instructor of the course.

7. The student is required to present his/her Professional Project to the School of Architecture Graduate Committee.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a Professional Project.

Subplan 5 Requirements: 3+ Education Facilities Research & Design Track

Total Credits Required: 96

Course Requirements

Preparatory Courses – Credits: 27
- AAE 555 - The Enlightenment to Mid-20th Century: Arch His and Theory
- AAE 651 - Multidiscipline Theory and Analysis in Architecture
- AAE 711L - Graduate Design I: Design and Communication
- AAE 712L - Graduate Design II: Fundamentals
- AAE 713L - Graduate Design III
- AAE 714L - Graduate Design IV

Preparatory Building Science Courses – Credits: 18
- ABS 521 - Construction Technologies I
- ABS 522 - Construction Technologies II
- ABS 531 - Environmental Control Systems I
- ABS 532 - Environmental Control Systems II

- ABS 541 - Structures for Architects I
- ABS 640 - Structures For Architects II

Preparatory Concentration Elective Course – Credits: 3
Complete 3 credits of an advisor-approved concentration elective course.

Preparatory Clinical Internship – Credits: 0
- AAD 600 - Clinical Internship

Required Courses – Credits: 30
- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- AAE 789 - Architecture Research Studio
- ABS 741 - Integrated Building Systems

Elective Courses – Credits: 12
Complete 12 credits from the following list of courses or other advisor-approved courses:
- CIG 603 - Urban Education
- CIE 683 - Elementary Classroom Management
- CIG 761 - Theoretical Foundations of Education
- CIG 764 - Models of Teaching
- CME 720 - Comparative Studies in Learning, Teaching, and Curriculum
- CIG 782 - School Climate
- CIS 686 - Curriculum Development Secondary Education
- CIT 607 - Technology and Computational Thinking
- CIT 772 - Technology in Teacher Education
- ESP 701 - Introduction to Special Education and Legal Issues
- ESP 715 - Communication Programming for Persons with Severe Disabilities
- ESP 774 - Seminar in Curriculum Development in Early Childhood Special Education
- ESP 775 - Strategies for Early Childhood Special Education
- ESP 777 - Assistive Technology Strategies for Young Children
- ESP 786 - Legal and Political Issues in Special Education Programming
- ESP 752 - Consultative Techniques in Special Education
- ESP 771 - Perspectives on Early Childhood Special Education
Professional Project – Credits: 6
- AAE 790 - Professional Project Design

Degree Requirements
1. Students are required to complete preparatory work before proceeding to the final four semesters of the program. The duration and total credits required for the program vary based on an individual student’s academic background and preparation. Each student will be individually assessed to determine these preparatory requirements.

2. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.

3. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.

4. Students are required to declare a subplan by the end of their first year.

5. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.

6. The student must successfully complete a Professional Project developed as part of the Professional Project Design course. The Professional Project should address a significant architectural problem and demonstrate a comprehensive design solution. The requirements and evaluation of this project will be determined by the instructor of the course.

7. The student is required to present his/her Professional Project to the School of Architecture Graduate Committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a Professional Project.

Subplan 6 Requirements: 3+ Building Systems & Sustainability Track
Total Credits Required: 96

Course Requirements
Preparatory Courses – Credits: 27
- AAE 555 - The Enlightenment to Mid-20th Century: Arch His and Theory
- AAE 651 - Multidiscipline Theory and Analysis in Architecture
- AAE 711L - Graduate Design I: Design and Communication
- AAE 712L - Graduate Design II: Fundamentals
- AAE 713L - Graduate Design III
- AAE 714L - Graduate Design IV

Preparatory Building Science Courses – Credits: 18
- ABS 521 - Construction Technologies I
- ABS 522 - Construction Technologies II
- ABS 531 - Environmental Control Systems I
- ABS 532 - Environmental Control Systems II
- ABS 541 - Structures for Architects I
- ABS 640 - Structures For Architects II

Preparatory Concentration Elective Course – Credits: 3
Complete 3 credits of an advisor-approved concentration elective course.

Preparatory Clinical Internship – Credits: 0
- AAD 600 - Clinical Internship

Required Courses – Credits: 24
- AAE 660 - Issues in Contemporary Urbanism
- AAE 756 - Design Practice Management
- AAE 770 - Research Methods in Environmental Design
- AAE 771L - Architectural Design V
- AAE 772L - Architectural Design VI
- ABS 741 - Integrated Building Systems

Elective Courses – Credits: 24
Complete 24 credits of advisor-approved elective coursework.

Thesis – Credits: 6
- AAE 791 - Thesis Writing

Degree Requirements
1. Students are required to complete preparatory work before proceeding to the final four semesters of the program. The duration and total credits required for the program vary based on an individual student’s academic background and preparation. Each student will be individually assessed to determine these preparatory requirements.
2. Students are required to maintain a minimum GPA of 3.00 on a 4.00 point scale. Any student whose GPA falls below 3.00 will be placed on probation and will have one semester to raise his/her GPA to 3.00 or higher. Failure to meet the requirements of academic probation may result in separation.

3. Only those courses in which a student receives a grade of B- or better may be used for graduate credit. Students must comply with all UNLV and Graduate College policies.

4. Students are required to declare a subplan by the end of their first year.

5. In order to assess the student’s progress in the program, the School of Architecture Graduate Committee will meet once a year with the student to determine whether or not he/she may advance to the next graduate year.

6. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. The master’s thesis will have to focus on an area of concentration approved by the student’s Thesis Advisory Committee and supported by elective course work related to the selected concentration subject. The student should register for thesis credits during the last year in the program.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit a bound copy of his/her thesis to the student’s Thesis Advisory Committee chair and to the Architecture Studies Library. The school reserves the right to retain any or all student projects for the program’s future use and exhibition.

4. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Master of Healthcare Interior Design

Plan Description

The Healthcare Interior Design professional program leads to the Master of Healthcare Interior Design degree. The program provides an interdisciplinary and research/innovation-driven educational experience that is responsive to current and projected modes of professional practice in the design of healthcare facilities and health promoting environments. The professional development of the students is further enhanced by the program’s unique collaborative relationship with the Cleveland Clinic Ruvo Center for Brain Health that provides opportunities to relate the needs of real-life patients, who are most directly affected by the designed environment, to the development of neuroscience-informed environmental design strategies. Project presentations and structured meetings with the Center’s prominent specialists in neurology, psychiatry, Parkinson’s/movement disorders, and neuropsychology are integral to the students’ educational experience. Graduates are well prepared to make a seamless transition into the profession and to advance onto positions of increased responsibilities and achievement of professional licensure. Their educational experience enables them to effectively participate in the integrated design and project delivery processes of environments that are increasingly being considered as one of at least three modalities - pharmacologic, behavioral, and environmental - for improving the quality of human life and health. They are also prepared to practice in a variety of related positions within the broad healthcare industry.

The 4+2 Year Program of study consists of 48 credit hours of graduate course work for holders of Council for Interior Design Accreditation (CIDA), National Architectural Accrediting Board (NAAB), or Landscape Architecture Accreditation Board (LAAB) accredited degrees. At least 27 credits must be earned from 700-level courses. The first year of studies is organized around a neuroscience-informed evidence-based design methodological paradigm complemented by courses in the health and behavioral sciences. The second year of studies is focused on the development of creative and innovative design strategies that can support the transformation of healthcare from reactive and hospital-centered to preventive, proactive, person-centered and focused on well-being rather than disease. In the final semester students are required to complete an independently researched and developed design thesis project as a condition for graduation.

The 4+3 Year Program of study consists of 72 credit hours of graduate course work for applicants of varied backgrounds holding other than Council for Interior Design Accreditation (CIDA), National Architectural Accrediting Board (NAAB), or Landscape Architecture Accreditation Board (LAAB) accredited degrees recognized by UNLV. At least 39 credits must be earned from 700-level courses.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.
Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the Master of Healthcare Interior Design program must meet the following admission requirements:

1. Overall minimum GPA of 3.0/4.0 (B average) in undergraduate work. Applicants with a GPA below 3.0 but not less than 2.75 may be admitted as provisional students.

2. A Council for Interior Design Accreditation (CIDA), National Architectural Accrediting Board (NAAB), or Landscape Architecture Accreditation Board (LAAB) accredited degree if applying into the 4 + 2 Year Program. Applicants holding other accredited degrees recognized by UNLV may be admitted into the 4+3 Year Program.

3. Submission of a portfolio of design work if applying into the 4 + 2 Year Program.

4. Graduate Record Examination (GRE) scores.

5. Three letters of recommendation from former instructors and/or employers that speak to the applicant’s potential as a graduate student. The individual writing the letter may use the form available from the UNLV Graduate College, which includes a release form for the student to sign.

6. A statement of the student’s professional goals and reasons for seeking admission into the program (200 words maximum).

7. International applicants whose native language is not English must show competency in the English language. A satisfactory score (minimum 550 on the written version or 213 on the computerized version) on the “Test of English as a Foreign Language” (TOEFL) or comparable evidence of competency in English must be submitted as part of their application.

8. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: 4 + 2 Year Track
Subplan 2 Requirements: 4 + 3 Year Track
Subplan 1 Requirements: 4 + 2 Year Track
Total Credits Required: 48

Course Requirements

Required Courses – Credits: 30

- AAI 650 - Designed Environment and Human Behavior
- AAI 723 - Interior Construction Documents and Specifications
- HID 653 - Built Environment and Human Health
- HID 773 - Healthcare Design I.
- HID 774 - Healthcare Design II.
- HID 775 - Healthcare Design III.
- HID 776 - Design Thesis Research

Directed Elective Courses – Credits: 12

Complete 12 credits of advisor-approved course work.

Thesis – Credits: 6

- HID 777 - Design Thesis

Degree Requirements

1. Maintain a cumulative GPA of 3.0/4.0 or above each semester enrolled.

2. Receive a grade of B (3.0) or above (or satisfactory, where applicable) in all courses. If less than a B (or unsatisfactory) is earned, the course may be repeated. The student must be in good standing to repeat a course, and any course may be repeated only once.

3. Complete a minimum of six semester hours in each calendar year. The total number of credits required for graduation may vary as transfer credits may be applied towards graduation.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing degree requirements.

2. The student must submit and successfully present and defend an evidence-based and research-informed thesis design project by the posted deadline. The presentation must be advertised and is open to the public.

3. Unanimous approval by the thesis examination committee of the defense is required for graduation.

4. The student must submit a bound copy of his/her thesis to the student’s Thesis Advisory Committee chair and to the Architecture Studies Library. The school reserves the right to retain any or all student projects for the program’s future use and exhibition.

5. The student must submit his/her approved, properly formatted thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.
Subplan 2 Requirements: 4 + 3 Year Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 54
- AAI 632 - Interior Architectural Systems
- AAI 650 - Designed Environment and Human Behavior
- AAI 654 - History of Architectural Interiors
- AAI 691 - Professional Practice
- AAI 723 - Interior Construction Documents and Specifications
- ABS 621 - Construction Technologies
- HID 653 - Built Environment and Human Health
- HID 673 - Design Communication I.
- HID 674 - Design Communication II.
- HID 773 - Healthcare Design I.
- HID 774 - Healthcare Design II.
- HID 775 - Healthcare Design III.
- HID 776 - Design Thesis Research

Directed Elective Courses – Credits: 12
Complete 12 credits of advisor-approved course work.

Professional Internship – Credits: 0
- HID 700 - Professional Internship

Thesis – Credits: 6
- HID 777 - Design Thesis

Degree Requirements

1. Maintain a cumulative GPA of 3.0/4.0 or above each semester enrolled.
2. Receive a grade of B (3.0) or above (or satisfactory, where applicable) in all courses. If less than a B (or unsatisfactory) is earned, the course may be repeated. The student must be in good standing to repeat a course, and any course may be repeated only once.
3. Complete a minimum of six semester hours in each calendar year. The total number of credits required for graduation may vary as transfer credits may be applied towards graduation.
4. Students must take and successfully complete HID 700, 200 hours of comprehensive work experience to be satisfactorily completed under the supervision of licensed/registered practitioners in a pre-approved design business entity.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing degree requirements.
2. The student must submit and successfully present and defend an evidence-based and research-informed thesis design project by the posted deadline. The presentation must be advertised and is open to the public.
3. Unanimous approval by the thesis examination committee of the defense is required for graduation.
4. The student must submit a bound copy of his/her thesis to the student’s Thesis Advisory Committee chair and to the Architecture Studies Library. The school reserves the right to retain any or all student projects for the program’s future use and exhibition.
5. The student must submit his/her approved, properly formatted thesis to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Subplan 1 Requirements: 4 + 2 Year Track
Subplan 2 Requirements: 4 + 3 Year Track
AAD 600 - Clinical Internship  
Full-time internship under the supervision of registered practitioners or equivalent. Notes: This course is crosslisted with AAD 400. Credit at the 600-level requires additional work. Prerequisites: AAE 714L or equivalent.

AAE 540 - Professional Practice and Society  
Professional and societal issues in architectural practice including codes, zoning, licensing, regulations, ethics and standards, building and occupancy types, exiting, accessibility and fire protection. Same as AEE 440

AAE 555 - The Enlightenment to Mid-20th Century: Arch His and Theory  
Exploration of the major movements in the history and theory of built form, beginning in the eighteenth century with the Enlightenment and continuing through the mid-twentieth century. Formerly: AEE 655  
Notes: Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

AAE 635 - Sustainable Design Principles  
Exploration of sustainable design emphasizing application of analytical, conceptual, and representational skills within projects that engage cultural, ecological, technological, and urban contexts. Formerly: AAE 735  
Prerequisites: Graduate standing.

AAE 651 - Multidiscipline Theory and Analysis in Architecture  
Examination of the discourse of ideas that center on theories of architecture and related disciplines. Emphasis will be given to contemporary theories, their lineages, and their function in the genesis of architectural projects. Notes: This course is crosslisted with AAE 451. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

AAE 653 - Visionary and Utopian Architecture: Plato to Bladerunner  
Examination of the nature of visionary and utopian architecture through analysis of historical and contemporary precedent, and exploration of possibilities for application of visionary and utopian thought to design. Notes: This course is crosslisted with AAE 453. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

AAE 660 - Issues in Contemporary Urbanism  
Examines the forces shaping contemporary architectural and urban design practices including the effects of cultural, economic, and political transformations upon spatial formations. Notes: This course is crosslisted with AAE 460. Credit at the 600-level requires additional work.

AAE 711L - Graduate Design I: Design and Communication  
Basic principles of design and communication. Understanding of the fundamentals of architectural graphics, 2-D design principles, 3-D composition and the effect of design elements on design decisions. Prerequisites: Graduate standing.

AAE 712L - Graduate Design II: Fundamentals  
Principles of design for graduate students. Understanding of the fundamentals of architectural design principles, site planning, architectural programming, response to specific and unique climate conditions for a given site. Prerequisites: AAE 711L or consent of graduate coordinator.

AAE 713L - Graduate Design III  
Design of residential structures at different scales. Emphasis on psychological and behavioral aspects of space and analysis of user needs. Prerequisites: AAE 712L or consent of graduate coordinator.

AAE 714L - Graduate Design IV  
Design of medium scale urban buildings. Emphasis on integration of building systems, urban design issues, and value engineering analysis. Prerequisites: AAE 713L or consent of graduate coordinator.

AAE 756 - Design Practice Management  
Investigation of professional management and organizational issues in the practice of architecture including project delivery, strategic business and financial planning. Prerequisites: AAE 772L

AAE 770 - Research Methods in Environmental Design  
Survey of research methods in environmental design. Quantitative and qualitative methods used in researching design, social/behavioral and technical problems in architecture. Prerequisites: Graduate standing.

AAE 771L - Architectural Design V  
Design and presentation of complex urban developments and multistory structures in an urban context. Prerequisites: AAE 714L or consent of graduate coordinator.

AAE 772L - Architectural Design VI  
Continuation of Architectural Design V, AAE 771L. Prerequisites: AAE 771L  
Corequisite: ABS 741

AAE 775 - Tourist Facility Design and Development  
Focuses on the interrelationships of social, economic and physical aspects of total tourist facilities design, with emphasis on the physical development of tourism, planning concepts of tourist centers and resort areas. Prerequisites: Consent of instructor.

AAE 789 - Architecture Research Studio  
Comprehensive building design project producing final report summarizing the building typology and conceptual design research and definitive written program requirements. Prerequisites: AAE 772L

AAE 790 - Professional Project Design  
Design of a complex building, a major design competition, or a comprehensive, integrated building design problem. Prerequisites: AAE 789

AAE 791 - Thesis Writing  
Full draft of the written thesis must be completed. Refinement of the problem statement and methodology, completion of literature review, investigation of the chosen problem, data collection and analysis expected. Notes: May be repeated until course requirements are satisfied, but only six credits counted toward M.Arch. Degree. Grading: S/F grading only. Prerequisites: Consent of graduate coordinator.

AAE 793 - Advanced Independent Study  
Advanced independent study of a selected topic in architectural design. Paper required. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of instructor.

AAE 795 - Advanced Special Topics in Design  
Outlet for experimental and other topics which may be of current interest in design. Notes: Topics and credits to be announced. May be repeated to a maximum of eight credits. Prerequisites: Graduate standing and consent of instructor.

AAI 723 - Interior Construction Documents and Specifications  
Preparation methods of effective construction documents and specifications guided by an understanding of regulations, standards, and material selection criteria. Comprehensive coverage of legal, industry regulatory, contractual, and construction issues critical to healthcare facilities planning and design. Prerequisites: ABS 621  
Corequisite: HID 774

HID 653 - Built Environment and Human Health  
Develop an understanding of human biological systems as they pertain to the built environment and the contraction, development, and proliferation of chronic and communicable illnesses. Emphasis is placed on common elements used within design, entry pathways to the human body, and biological development from prevention, rehabilitation to accommodation. Grading: Letter grade Prerequisites: Graduate Standing in the School of Architecture.
HID 673 - Design Communication I.  Credits 6
The development of fundamental design communication skills and knowledge which are integral to the complex process of design decision making. An overview of design theories and applications of methodologies basic to the development of design concepts, as well as the two and three dimensional representation of design products.

HID 674 - Design Communication II.  Credits 6
A hybrid seminar/workshop course organized around a healthcare design methodological paradigm for conceptualizing and producing digital and analogue output that is driven by a project that, in turn, is driven by sequenced investigations. Functions of software are utilized as approaches to the digitization of interior spatial qualities. Prerequisites: HID 673

HID 700 - Professional Internship  Credits 0
Professional work experience in a design or government office under the supervision of a licensed or registered practitioner. Supervision is provided by both the Healthcare Interior Design Program Coordinator and the cooperating agency. Registration for course requires Program Coordinator pre-approval. Grading: S/F grading only.

HID 773 - Healthcare Design I.  Credits 6
First in a sequence of three project-based and data-driven Healthcare Design courses organized around a neuroscience-informed design methodological paradigm. Innovative design strategies are developed for private and small group environments to support the transformation of healthcare from reactive and hospital-centered to preventative, person-centered and focused on well-being rather than disease. Corequisite: AAI 650

HID 774 - Healthcare Design II.  Credits 6
Second in the sequence of three Healthcare Design courses is the design of specialized continuing care environments. Creative and innovative design strategies are developed to support independent living, assisted living, or nursing home care in later years while actively engaging in the culture of a surrounding community. Prerequisites: HID 773 Corequisite: AAI 723

HID 775 - Healthcare Design III.  Credits 6
Third in the sequence of three Healthcare Design courses is the design of healthcare facilities and healing environments. Creative and innovative design strategies are developed toward the influencing of the direction of responsibly built environments that will directly and positively impact the safety, operation, clinical outcomes, and financial success of healthcare facilities. Prerequisites: HID 774

HID 776 - Design Thesis Research  Credits 3
A seminar/lecture course designed to engage processes involved in planning a thesis research to programatically inform and guide the production of a successful thesis design project. The course is organized around a framework for defining a thesis topic, research methodologies, writing a comprehensive proposal, and developing a research plan.

HID 777 - Design Thesis  Credits 6
Self-directed design studio course to further investigate and evaluate theoretical ideas beyond Design Thesis Research pursuant to each student’s delineated conceptual framework for research-based design. Continued applications of both traditional scholarly, and design-based research methods by which design processes can engage broader issues in healthcare design Prerequisites: HID 776

HID 790 - Independent Study in Healthcare Interior Design  Credits 3 - 6
Independent study of a selected topic in Healthcare Interior Design under the supervision of faculty. Prerequisites: Approval of program coordinator.

HID 795 - Advanced Special Topics in Healthcare Design  Credits 3 - 6
Advanced special topics in, or related to Healthcare Design as defined in the announcement of the course offering. Notes: May be repeated to a maximum of six credits. Prerequisites: Approval of program coordinator.

ABS 521 - Construction Technologies I  Credits 3
Basic materials, methods and detailing of landscape, building and interior construction. Includes effects of zoning and code requirements. Same as ABS 321

ABS 522 - Construction Technologies II  Credits 3
Investigation of building materials, assemblies, and construction delivery systems and their impact upon architectural design. Same as ABS 322 Prerequisites: AAE 521 or instructor consent.

ABS 531 - Environmental Control Systems I  Credits 3
Climate, energy use, and comfort as determinants of architectural form in small-scale buildings. Emphasis on architectural methods of daylighting, heating, cooling, and ventilation for envelope-load dominated buildings. Same as ABS 331 Corequisite: ABS 531L

ABS 532 - Environmental Control Systems II  Credits 3
Building design implications of HVAC systems, vertical transportation, water supply and waste systems, acoustics, and lighting systems in accordance with current building codes. Same as ABS 332 Prerequisites: AAE 531 / AAE 531L or instructor consent. Corequisite: ABS 532L

ABS 541 - Structures for Architects I  Credits 3
Theory and basic elements of simple structural systems for architects, designers, and construction manager. Lecture and field trip. Same as ABS 341

ABS 621 - Construction Technologies  Credits 3
Detailed study of the properties and industry applications of basic materials, construction methods and technologies for the design of buildings. Zoning and building code requirements are emphasized in relation to design, detailing, specifying, cost analysis, and green materials and systems.

ABS 632 - Solar Energy Applications in Architecture  Credits 3
Solar energy as a renewable energy resource for heating and cooling of buildings. Presents technical and design issues of passive and active solar energy systems, as well as solar electric power (photovoltaics). Emphasis on architectural design integration and occupant comfort. Explores design-related projects and case studies of existing solar buildings. Prerequisites: Graduate standing.

ABS 640 - Structures for Architects II  Credits 3
Continuing from Structures for Architects I, this course focuses on concepts of flexure, shear and deflection, shear and moment diagrams, compression and buckling, continuity and indeterminate structures. An emphasis is placed on understanding overall building behavior, including lateral forces and lateral framing systems, soils and foundations, and essential principles of concrete construction. Notes: This course is crosslisted with ABS 440. Credit at the 600-level requires additional work.

ABS 641 - Structures for Architects III  Credits 3
This advanced elective class offers the opportunity to explore complex structural assemblies such as tensile membrane and shell structures, tensegrity and geodesic construction as well as high-rise structural systems. Lab activities that include experimental construction and testing of models plus advanced computer simulation of behavior reinforce the elemental principles. Notes: This course is crosslisted with ABS 441. Credit at the 600-level requires additional work.

ABS 643 - Interior Lighting Design  Credits 3
Principles of interior lighting and daylighting. Electrical loading, evaluation of light sources for distribution, cost, and color. Notes: This course is crosslisted with ABS 443. Credit at the 600-level requires additional work. Prerequisites: ABS 532 or equivalent.

ABS 741 - Integrated Building Systems  Credits 3
Design of building structures together with mechanical and electrical services, life safety codes, and building codes. Prerequisites: AAE 771L Corequisite: AAE 772L
ABS 793 - Advanced Independent Study  
Credits 1 – 3  
Advanced independent study of a selected building science topic. Paper required. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of instructor.

ABS 795 - Advanced Special Topics in Building Science  
Credits 1 – 3  
Outlet for experimental and other topics of interest in advanced building science. Paper required. Notes: Topics and credits to be announced. May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of graduate coordinator.

AAD 701 - International Study  
Credits 3 - 6  
Full-time study of architecture and/or allied studies in a foreign location as designated by the program. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Graduate standing and consent of graduate coordinator.

AAD 793 - Independent Study  
Credits 1 – 3  
Independent study of a selected topic in architectural design. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of graduate coordinator.

AAD 795 - Advanced Special Topics in Design  
Credits 1 – 3  
Experimental and other topics which may be of current interest in design. Notes: Topics and credits to be announced. May be repeated to a maximum of six credits. Prerequisites: Graduate standing and consent of graduate coordinator.

AAI 632 - Interior Architectural Systems  
Credits 3  
Health promoting and comfort considerations in indoor thermal environments, air quality, ventilation, air conditioning, lighting and acoustics. Emphasis on the design applications of indoor environmental factors and the use of physical and computer modeling.

AAI 650 - Designed Environment and Human Behavior  
Credits 3  
Effects of interior spaces, architecture, and urban settings on human well-being and functioning. Notes: This course is crosslisted with AAI 450. Credit at the 600-level requires additional work.

AAI 654 - History of Architectural Interiors  
Credits 3  
A survey of western and non-western architectural interiors as manifestations and design expressions of social and cultural influences from the 19th century to present. Of fundamental concern is the analysis of major design trends and their relationships to corresponding aesthetic philosophies and historical periods.

AAI 680 - Furniture Design  
Credits 3  
Integrated overview of the development and evolution of contemporary furniture design and production. Fundamental concerns include the exploration and analysis of product-specific ergonomic, technical, cultural, and aesthetic considerations. Notes: This course is crosslisted with AAI 480. Credit at the 600-level requires additional work. Prerequisites: Graduate standing and instructor consent.

AAI 691 - Professional Practice  
Credits 3  
An in-depth examination of the history and organization of the profession of interior design. Methods of the practice of providing professional services are studied with an emphasis on the development of strategic business, marketing and planning skills.

AAL 655 - Landscape Interpretation  
Credits 3  
Investigates the vernacular landscape evolving from decisions made in manipulating physical and social environments. Examines various landscape types, including agricultural, residential, strip development, landfill, industrial, transportation corridors, landmarks, and centers. Emphasizes wayfinding, implied symbolism, and meaning in the landscape. Notes: This course is crosslisted with AAL 455. Credit at the 600-level requires additional work.

AAL 665 - GIS Planning Methods  
Credits 3  
Environmental analysis and planning methods utilizing ArcInfo and ArcView program to develop data overlays. Notes: This course is crosslisted with AAL 465. Credit at the 600-level requires additional work.

AAP 630 - Land Use Management  
Credits 3  
Planning implementation and evaluation of land use in both urban and non-urban contexts. Emphasis on sustainable use with a focus on conservation of valuable natural resources as well as energy. Constraints related to individual property rights and distribution of wealth treated. Notes: This course is crosslisted with AAL 430. Credit at the 600-level requires additional work.

AAP 646 - Urban Land Use: Planning and Controls  
Credits 3  
This course may also be used for graduate elective credit. For a description of this 600-level course, please consult the current UNLV Undergraduate Catalog where it is listed as a 400-level class.
Art

The three-year Master of Fine Arts (MFA) is studio-based and research-focused with an emphasis on interdisciplinarity, community engagement, and professional development. Each MFA student is provided with individual studio space. Graduate Assistantships in teaching, research, and professional development professionally advance students who have rare opportunities to engage in cutting-edge research, contribute to the development of curriculum, manage studios and shops, and work alongside community members, local organizations, and other departments on campus.

Through academic and public programming, the Department of Art collaborates with UNLV’s Marjorie Barrick Museum of Art, a network of campus galleries, and The College of Fine Arts which boldly launches visionaries not only in art and design, but also in dance, film, theater, set design, entertainment design, music, architecture, and related disciplines. Graduate students have the opportunity to work with a diverse art/art history faculty whose work engages a variety of media, including site-based installation, sculpture, ceramics, photography, painting, drawing, printmaking, performance, intermedia, graphic design, and digital art. The department regularly presents visiting speakers and hosts artist-in-residence. Engagement with faculty, peers and the Las Vegas cultural community creates an experience rich environment that guides MFA candidates in their exploration of creative research activities.

The program plan encourages the development of research and practice through investigation, experimentation, risk-taking and collaboration, and students regularly present work in group critiques for in-depth analysis and dialogue with faculty and peers. In their second year, each student produces a midway project for evaluation and advancement of candidacy. In their third year, as the culmination of the program, each MFA candidate produces a public graduation thesis project. In addition to these milestone public exhibition projects, MFA Art candidates have opportunities to present new work in annual MFA Open Studios events and to seek out and participate in projects, workshops, and conferences on and off campus and outside of Nevada.

Department of Art MFA program alumni exhibit and publish their work regionally, nationally and internationally, and contribute to their communities and the field of contemporary art as artists, designers, writers, educators, art directors, arts administrators, advocates and cultural producers.

The MFA Program, which is a part of the UNLV Graduate College, is jointly administered by the Department of Art’s graduate coordinator and the Graduate College.

For accreditation information, visit the Academic Program Accreditations page.

Marcus Civin, Chair
Wendy Kveck, Graduate Coordinator

Art Faculty
Chair
Civin, Marcus

Graduate Coordinator
Kveck, Wendy

Graduate Faculty
Angel, Catherine - Full Graduate Faculty Professor; B.F.A., University of Oklahoma; M.F.A., Indiana University. Rebel since 1991.
Burden, Jeffrey K. - Full Graduate Faculty Professor; B.F.A., University of Evansville; M.F.A., University of Indiana. Rebel since 2007.
McDonald, Aya Louisa - Full Graduate Faculty Associate Professor; B.A., M.A., Ph.D., Stanford University. Rebel since 2000.
Newbury, Susanna - Full Graduate Faculty Assistant Professor; B.A. Oberlin, M.A., Ph.D., Yale University.
Rafat, Pasha - Full Graduate Faculty Professor, B.S. Arizona State University, M.A., M.F.A. California State University, Fullerton. Rebel since 1986.
Rowe, David - Full Graduate Faculty Assistant Professor; B.F.A. University of Illinois, M.F.A. Indiana University.
Seo, Sang-Duck - Full Graduate Faculty Assistant Professor, BFA Taegu University, Korea, MFA Iowa State University. Rebel since 2006.
Tracy, Robert H. - Full Graduate Faculty Associate Professor; B.A., California State University, Hayward; M.A., Ph.D., University of California, Los Angeles. Rebel since 1984.
Watkins, Helga - Full Graduate Faculty Associate Professor; B.F.A., Savannah College of Art and Design; M.F.A., University of Notre Dame. Rebel since 1999.

Professors Emeriti
Leaf, Bill S. Professor; B.F.A., San Francisco Art Institute; M.A., University of California, Davis. UNLV Emeritus 1973.
Master of Fine Arts - Art

This program (Photography or Sculpture) is accredited by: NASAD. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The UNLV MFA degree is a three-year, research oriented and studio based program. It provides each student with studio space and a tutorial system that assures close contact with faculty members and peers, the latter implemented through visiting artist program that exposes new students to an experience-rich environment to help guide them in their exploration to establish and articulate their creative and productive activities. Graduate assistantships are available to defray expenses, and in addition, the city of Las Vegas provides a unique visual, architectural, and cultural setting that many students find to be inspiring.

The UNLV Art Department focuses on various areas of discipline including Drawing and Painting, Sculpture, Printmaking, Photography and Mixed-Media. While these areas are the department’s primary focus, graduate students are encouraged to investigate and research any media discipline.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

A student working toward the M.F.A. – Art may select a major in ceramics, painting, photography, printmaking, drawing, sculpture, or graphic design. Applicants for the program leading to this degree must hold a Bachelor of Fine Arts in Art (or an equivalent degree) from an accredited university.

To be considered for admission to the program, applicants must submit for approval 20 slides of their work, a statement of intent, a resumé, official transcripts, and three letters of recommendation. These materials should be sent directly to the Department of Art. The application for admission, request for graduate assistantship, and an additional set of original transcripts should be sent directly to the Graduate College.

To enter the program, the student should have a baccalaureate in the field in which he or she expects to major and should have completed at least 60 hours in art and art history as a requirement for that degree. A student with less than 60 hours must enroll in undergraduate courses until this requirement is met.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan I Requirements: Post-Bachelor’s Track

Total Credits Required: 60

Course Requirements

Studio Course – Credits: 6
· ART 721 - Graduate Faculty Studio

Seminar Course – Credits: 6
· ART 700 - Seminar in Studio Practices

Art History or Directed Readings – Credits: 6
· ART 677 - Art Since 1945
· ART 747 - Directed Readings

Theory Courses – Credits: 3
Complete 3 credits from the following list of courses or another University Theory and Criticism course:
· ART 737 - Theory and Criticism

Additional Courses – Credits: 36
Complete 36 credits from the following list of courses or other advisor-approved courses.
· ART 710 - Graduate Studio
· ART 720 - Graduate Projects

Graduate Exhibition – Credits: 3
· ART 777 - Graduate Exhibition

Degree Requirements

1. The M.F.A. candidate must be a full-time student. 9 credits is full time for graduate students; GAs (graduate assistants) are considered full time at 6 credits.

2. During their second year in the MFA program, the candidate’s work must be presented to their graduate advisory committee for evaluation as a midway exhibition/project. The committee assesses and determines if the student’s progress meets the standards required for advancement to candidacy.

3. After advancement to candidacy, students must complete a comprehensive MFA Thesis project consisting of an exhibition of a representative body of creative work and a statement (2,000-word minimum) regarding the intent and underlying conceptualization. The candidate must pass their final evaluation, an oral Thesis Defense presented by the student and conducted by the student’s advisory committee during their exhibition. Digital documentation of the work in the exhibition, along with the 2,000 word minimum thesis statement, must be presented to the department during the exhibition for permanent record.
Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-M.A. Track

Total Credits Required: 45

Course Requirements

Studio Course – Credits: 6
  - ART 721 - Graduate Faculty Studio

Seminar Course – Credits: 6
  - ART 700 - Seminar in Studio Practices

Art History or Directed Readings – Credits: 6
  - ART 677 - Art Since 1945
  - ART 747 - Directed Readings

Theory Courses – Credits: 3

Complete 3 credits from the following list of courses or another University Theory and Criticism course:
  - ART 737 - Theory and Criticism

Additional Courses – Credits: 21

Complete 21 credits from the following list of courses or other advisor-approved courses.
  - ART 710 - Graduate Studio
  - ART 720 - Graduate Projects

Graduate Exhibition – Credits: 3
  - ART 777 - Graduate Exhibition

Degree Requirements

1. The MFA candidate must be a full-time student. 9 credits is full time for graduate students; GAs (graduate assistants) are considered full time at 6 credits.

2. During their second year in the MFA program, the candidate’s work must be presented to their graduate advisory committee for evaluation as a midway exhibition/project. The committee assesses and determines if the student’s progress meets the standards required for advancement to candidacy.

3. After advancement to candidacy, students must complete a comprehensive MFA Thesis project consisting of an exhibition of a representative body of creative work and a statement (2,000-word minimum) regarding the intent and underlying conceptualization. The candidate must pass their final evaluation, an oral Thesis Defense presented by the student and conducted by the student’s advisory committee during their exhibition. Digital documentation of the work in the exhibition, along with the 2,000 word minimum Thesis statement, must be presented to the department during the exhibition for permanent record.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her M.F.A. exhibition by the posted deadline. The exhibit must be advertised and is open to the public.

ART 604 - Art in Public Places

Theoretical and practical investigation of art in public places. Concentration on collaborative process between artists, designers, architects and communities. Includes site considerations, grant writing, proposal preparation and presentation, budgeting, legal aspects, publicity and report development and documentation. Notes: This course is crosslisted with ART 404. Credit at the 600 level requires additional work.

Grading: Letter grade

ART 620 - Advanced Painting

Emphasizes individual development in painting and encourages experiments with new techniques. Notes: This course is crosslisted with ART 432. Credit at the 600-level requires additional work.

ART 663 - History of Early Renaissance Art

History of art from the late Gothic through the fifteenth century in Italy. Notes: This course is crosslisted with ART 463. Credit at the 600-level requires additional work.

ART 664 - High Renaissance and Mannerist Art

History of art of the sixteenth century in Italy and Spain. Notes: This course is crosslisted with ART 464. Credit at the 600 level requires additional work.

ART 665 - History of Northern Renaissance Art

History of Renaissance art in the countries north of the Alps. Notes: This course is crosslisted with ART 465. Credit at the 600-level requires additional work.

ART 667 - History of Baroque Art I

History of art of the seventeenth century in Italy and Spain. Notes: This course is crosslisted with ART 467. Credit at the 600 level requires additional work.

ART 668 - History of Baroque Art II

History of art during the seventeenth century in Flanders, Holland, and France. Notes: This course is crosslisted with ART 468. Credit at the 600 level requires additional work.

ART 669 - Art of Eighteenth Century Europe I

Eighteenth-century art in France. Notes: This course is crosslisted with ART 469. Credit at the 600 level requires additional work.

ART 670 - Art of Eighteenth Century Europe II

Eighteenth-century art in Italy, England, Germany and Spain. Notes: This course is crosslisted with ART 470. Credit at the 600 level requires additional work.

ART 672 - Nineteenth Century Art

History of European art in the nineteenth century. Notes: This course is crosslisted with ART 472. Credit at the 600 level requires additional work.

ART 673 - Twentieth Century Art

History of European art in the twentieth century. Notes: This course is crosslisted with ART 473. Credit at the 600 level requires additional work.
ART 674 - History of American Art Credits 3
History of art in the United States from the seventeenth century until World War II. Notes: This course is crosslisted with ART 474. Credit at the 600 level requires additional work.

ART 676 - Performance and Media Art Credits 3
Provides an alternative history of contemporary art, focusing on performance, media, participatory, and action-based art from the early twentieth century to the present. Grading: Letter grade

ART 677 - Art Since 1945
Study of painting, sculpture, and architecture since World War II and of the critical and cultural milieu in which these art forms developed. Notes: This course is crosslisted with ART 477. Credit at the 600 level requires additional work.

ART 680 - The Art of China Credits 3
Surveys the history of the art and architecture of China. Notes: This course is crosslisted with ART 480. Credit at the 600 level requires additional work.

ART 681 - Art of Japan
Surveys the art and architecture of Japan from prehistoric to the Meiji Restoration. Inter-relationships between Japanese and western art briefly covered. Notes: This course is crosslisted with ART 481. Credit at the 600 level requires additional work.

ART 695 - Special Topics in Art History Credits 3
Varies by semester; addresses various art history topics. Notes: This course is crosslisted with ART 495. Credit at the 600 level requires additional work.

ART 699 - Special Topics in Art History Credits 3
Special topics in Art History. Grading: Letter grade

ART 700 - Seminar in Studio Practices Credits 3
Studio practices directed toward the analysis of studio work. Fosters an open and conducive atmosphere for examination of media and concepts through constructive criticism. Notes: May be repeated to a maximum of 12 credits.

ART 710 - Graduate Studio Credits 1 – 9
Individual problems in major studio area, with choice of medium. Notes: May be repeated with change of subject, maximum of 15 credits. Prerequisites: Graduate standing.

ART 720 - Graduate Projects Credits 1 – 9
Individual problems in major studio area, with choice of medium. Notes: May be repeated with change of subject, maximum of 30 credits. Prerequisites: Graduate standing in art.

ART 721 - Graduate Faculty Studio Credits 3
Individual problem in the studio area with regularly scheduled critique and discussion sessions with department faculty. Notes: May be repeated to a maximum of eighteen credits. Grading: Letter Grade Prerequisites: Graduate standing.

ART 722 - Graduate Contemporary Practice Seminar Credits 3
Practice and theory of contemporary space, with emphasis on critical examination of object making utilizing speculative investigations and a synthesis of means. Goals of the course include critical theory, current art criticism, and advancement of the studio practice toward the current global discourse in art. Notes: May be repeated to a maximum of fifteen credits.

ART 737 - Theory and Criticism Credits 3
Analysis of the various aesthetic theories of art in the Western world. Same as No Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

ART 747 - Directed Readings Credits 1 – 3
Directed readings in art history in a specific area agreed upon by the students and faculty prior to registration. Notes: May be repeated for a maximum of nine credits. Prerequisites: Graduate standing.

ART 777 - Graduate Exhibition Credits 3
Culminates in a graduate exhibition presented by the candidate for the Master of Fine Arts degree. Prerequisites: Must be taken in final semester with show exhibition, graduate standing.

Film
The UNLV Department of Film offers a Master of Fine Arts degree in Writing for Dramatic Media. This terminal film degree provides students with opportunities to develop motion picture screenplays, stage plays, television series, content for the internet, mobile communication, and game-scripting. This is in keeping with the narrative driven curriculum of the Film Department as a whole. This MFA professional training program presents superior academic and artistic standards for the candidates. They are challenged to elevate their talent and craft to levels of excellence to make for seamless transfers into careers in the entertainment industry. Students completing the three-year program will have a significant group of feature motion picture and television scripts that have been honed to the sharpest professional sensibility. In addition to faculty with professional experience, the students are exposed to a variety of guests who are working in the industry.

Heather Addison, Ph.D., Chair
Sean Clark, Graduate Coordinator

Film Faculty
Chair
Addison, Heather - Full Graduate Faculty Professor; B.S., Eastern Michigan; M.A., Eastern Michigan; Ph.D., University of Kansas.

Graduate Coordinator
Clark, Patrick Sean- Full Graduate Faculty Professor; B.S., University of Missouri; M.F.A., University of Iowa. Rebel since 1999.

Graduate Faculty
Gilyard, Clarence Associate Professor; B.A., California State University; M.F.A., Southern Methodist University.

Levner, Brett Associate Professor; B.F.A., New York University’s Tisch School of the Arts; M.F.A., Columbia University.

Menendez, Francisco- Full Graduate Faculty Professor; B.A., University of Puget Sound; M.F.A., California Institute of the Arts. Rebel since 1990.

Schmoeller, David Associate Professor; M.A., University of Texas

Waldman, David Associate Professor; M.F.A., American Film Institute.

Wegner, Hart- Full Graduate Faculty Professor Emeritus; B.A., M.A., University of Utah; Ph.D., Harvard University. Rebel since 1968.
Graduate Certificate in Writing for Dramatic Media

Plan Description

The UNLV Department of Film offers a Graduate Certificate in Writing for Dramatic Media. The mission of the Writing for Dramatic Media Certificate Program at UNLV is to give graduate students in other disciplines the opportunity to study creative writing for various dramatic media at a professional standard and to award those who complete the program a valuable distinction to benefit them in their careers.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The certificate candidate must already have been accepted by the Graduate College at UNLV and be a graduate degree-seeking candidate in good standing in a field other than film. The candidate must have the authorization by the graduate coordinator or advisor from their own program or department. The certificate candidate may start at any time in their studies, but must complete the requirements prior to, or in the same semester, as completing their graduate degree.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Screenwriting Course – Credits: 6

Complete 6 credits of the following course:

- FILM 722 - Graduate Screenwriting

Required Courses – Credits: 6

Complete 6 credits from the following courses:

- FILM 615 - Story Development
- FILM 618 - Writing for Television I
- FILM 619 - Writing for Television II
- FILM 720 - Advanced Cinematic Structure
- FILM 723 - Ensemble Screenwriting
- FILM 724 - The Adaptation Screenplay
- FILM 725 - Writing for Assignment
- FILM 726 - Advanced Screenplay Analysis
- FILM 727 - Advanced Screenplay Theory
- FILM 728 - Graduate Production

Certificate Requirements

1. Completion of a minimum of 12 credit hours with a minimum GPA of 3.00.
2. The culminating experience will be a two hour oral defense of a significant creative work that was developed within the program.

Plan Certificate Completion Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. The student must successfully complete and defend his/her final project.
Master of Fine Arts - Writing for Dramatic Media

Plan Description
The UNLV Department of Film offers a Master of Fine Arts in Writing for Dramatic Media. This terminal degree focuses specifically on the art and craft of writing for performance. This is a three-year long creative writing discipline housed in a film department. The focus of the program is on developing feature screenplays but the candidate will also produce television screenplays, stage plays, and various types of work for digital media as it evolves. The program is based on a “conservatory” approach of practice and repetition and includes a significant amount of “pitching,” or working aloud, as part of the process. Students completing the three-year program will have a significant group of feature motion picture, television, and other scripts that have been honed to a professional level. In addition to faculty with professional experience, the students are exposed to a variety of professional guests.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Students are admitted in the fall term of each academic year. In addition to the general requirements for admission to the Graduate College, the following materials must be submitted.

1. A writing sample to the Graduate Coordinator. This sample should be a screenplay. A stage play or prose fiction will suffice if approved by the coordinator. The sample is needed to demonstrate narrative ability.

2. The names, addresses, and telephone numbers of two references.

3. Finalists will be interviewed, by telephone or in person, by the Graduate Coordinator.

Review of applications begins January 15.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 54

Course Requirements
Screenwriting Course – Credits: 18
Complete 18 credits of the following course:
- FILM 722 - Graduate Screenwriting

Required Courses – Credits: 18
Complete 18 credits from the following courses:
- FILM 615 - Story Development
- FILM 618 - Writing for Television I
- FILM 619 - Writing for Television II
- FILM 720 - Advanced Cinematic Structure
- FILM 723 - Ensemble Screenwriting
- FILM 724 - The Adaptation Screenplay
- FILM 725 - Writing for Assignment
- FILM 726 - Advanced Screenplay Analysis
- FILM 727 - Advanced Screenplay Theory
- FILM 728 - Graduate Production

Elective Courses – Credits: 18
Complete 18 credits of 600- or 700-level advisor approved courses.

Degree Requirements
1. Completion of a minimum of 54 credit hours with a minimum GPA of 3.00.

2. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

3. During the three years of study, each screenwriting student will be expected to complete a minimum of four full-length feature motion picture screenplays and two television scripts. In practice, the output is actually closer to five screenplays and four television scripts. One screenplay will be selected to be the candidate’s thesis script. It will undergo final revision as the work most indicative of the candidate’s art and craft.

4. A two-hour oral examination will take place at the end of the course of study. This examination focuses on the student’s final project (1 hour) and on all remaining work completed within the program (1 hour).

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete and defend his/her final project.
FILM 615 - Story Development  Credits 3  
Basis of cinematic structure, emphasizing action, construction, tension, and character. Story development through motion picture formats.  
Notes: This course is crosslisted with FIS 415. Credit at the 600-level requires additional work. Grading: Letter grade

FILM 618 - Writing for Television I  Credits 3  
With emphasis on the narrative exploration of the television hour-drama, students develop and complete one hour-drama spec script.  
Notes: This course is crosslisted with FILM 418. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits. Grading: Letter grade

FILM 619 - Writing for Television II  Credits 3  
As a continuation of FILM 618, students explore the television situation comedy and develop and complete one sit-com script. Notes: This course is crosslisted with FILM 419. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

FILM 724 - The Adaptation Screenplay  Credits 3  
Study of adapting a screenplay from another written medium by writing a full-length (120-page) screenplay in accepted industry format. The screenplay must have a contemporary setting but source material must be at least 100 years old and in public domain. Notes: May be repeated for a maximum of six credits. Prerequisites: Consent of instructor.

FILM 725 - Writing for Assignment  Credits 3  
Study and practice of editing, rewriting and revising the creative work of other screenwriters. Students analyze precedent of revising known screenplays, rewrite a full-length script as a group and commit an individual rewrite of a full-length script. Notes: May be repeated for a maximum of six credits. Grading: Letter grade Prerequisites: Consent of instructor.

FILM 726 - Advanced Screenplay Analysis  Credits 3  
In-depth analytical study of a filmed script. Analysis ranges from the effects of a scripted visual technique to metaphor to personal and societal influences. Students write and present two analytical papers. Grading: Letter grade Prerequisites: Consent of instructor.

FILM 727 - Advanced Screenplay Theory  Credits 3  
Analytical study of motion pictures with focus on the screenwriter’s intent and agenda. Students conduct thorough research on screenwriters and provide analysis of the screenwriters’ product. Students present and defend two papers combining this research and analysis. Grading: Letter grade Prerequisites: Consent of instructor.

FILM 728 - Graduate Production  Credits 3  
Analytical approach to the professional production of a student’s screenplay. Students chronicle all levels of involvement with the physical “shooting” of his, or her, script. Notes: May be repeated for a maximum of six credits. Prerequisites: Consent of instructor.
School of Music

The UNLV School of Music provides a professional artistic environment that supports programs of excellence in the development of musicians.

The School of Music offers graduate programs (accredited by the National Association of Schools of Music) leading to the Master of Music as well as the Doctor of Musical Arts.

Students not admitted to graduate programs in music may register for graduate courses only with permission from the instructor of the course and the appropriate program administrator.

Sue Mueller; Director
Richard Miller, Ph.D., Graduate Coordinator

Music Faculty

Director
Mueller, Susan - Full Graduate Faculty Associate Professor; B.M., The University of Kansas; M.M., Lesley College. Rebel since 2002.

Graduate Coordinator
Miller, Richard - Full Graduate Faculty Assistant Professor; B.A., M. M., Ph.D., University of Wisconsin-Madison. Rebel since 2015.

Graduate Faculty
Anderson, Alfonse - Full Graduate Faculty Professor; B.A., M.M., Texas Southern University; D.M.A., University of Arizona. Rebel since 1997.
Barone, Anthony - Full Graduate Faculty Associate Professor; B.A., Cornell University; M.A., Eastman School of Music; Ph.D., Columbia University. Rebel since 2006.
Bellor, Jennifer - Full Graduate Faculty Visiting Lecturer; B.A., Cornell University; M.M., Syracuse University Bloomington; Ph.D., Eastman School of Music. Rebel since 2014.
Bernatis, Bill - Full Graduate Faculty Associate Professor; B.M., Washburn University of Topeka; M.M., Indiana University Bloomington. Rebel since 1998.
Burkett, Eugene - Full Graduate Faculty Associate Professor; B.M.E., Baylor University; M.M., Manhattan School of Music; Ph.D., University of Wisconsin-Madison. Rebel since 2005.
Caplan, Stephen - Full Graduate Faculty Professor; B.M., Northwestern University; M.M., D.M.A., University of Michigan. Rebel since 1989.
Fitzpatrick, Tod - Full Graduate Faculty Associate Professor; B.M., Chapman University; M.M., University of Southern California; D.M.A., University of Southern California. Rebel since 2003.
Grim, Jennifer - Full Graduate Faculty Associate Professor; B.A., Stanford University; M.M., M.M.A., D.M.A., Yale University. Rebel since 2007.
Groneimeier, Dean - Full Graduate Faculty Professor and Associate Dean; B.A., Northern Illinois University; M.M., D.M.A., University of Arizona; J.D., University of Nevada, Las Vegas. Rebel since 1989.
Halka, Charles - Associate Graduate Faculty Visiting Lecturer, B.M., Peabody Conservatory; M.M., Peabody Conservatory (Theory Pedagogy); M. M. Peabody Conservatory (Composition); D.M.A., Rice University.
Hanlon, Kenneth M. - Full Graduate Faculty Professor; B.M., M.M., D.M.A., Peabody Conservatory of Music of Johns Hopkins University. Rebel since 1970.
Hoft, Timothy - Full Graduate Faculty Assistant Professor; B.M., University of Michigan; M.M., Peabody Conservatory of Music of Johns Hopkins University; D.M.A. Peabody Conservatory of Music of Johns Hopkins University. Rebel since 2012.

Hull, Barbara - Full Graduate Faculty Faculty-in-Residence; B.M., Houghton College; M.M., Eastman School of Music; D.M.A. Eastman School of Music. Rebel since 2015.
Jones, Timothy - Full Graduate Faculty Assistant Professor; B.M., University of Adelaide; D.M.A., University of Nevada, Las Vegas. Rebel since 1997.
Krysa, Taras - Full Graduate Faculty Associate Professor; B.M., Manhattan School of Music; M.M., Indiana University; M.M., Northwestern University. Rebel since 2007.
LaBounty, Anthony - Full Graduate Faculty Associate Professor; B.M. University of Arizona; M.S., University of Illinois Urbana. Rebel since 1988.
Le, Wei-Wei - Full Graduate Faculty Assistant Professor; B.M. Oberlin Conservatory of Music; M.M. Cleveland Institute of Music. Rebel since 2007.
Lee, Jonathan - Full Graduate Faculty Assistant Professor; B.A., Colgate University; M.M., San Francisco Conservatory of Music; M. A., University of California-Berkeley; Ph.D. University of California-Berkeley. Rebel since 2015
Leslie, Thomas - Full Graduate Faculty Professor; B.M.E., University of Iowa; M.S., Indiana University. Rebel since 1985.
Lister, Linda - Full Graduate Faculty Associate Professor; A.B., Vassar; M.M. Eastman School of Music; D.M.A., University of North Carolina-Greensboro. Rebel since 2011.
Loeb, David - Full Graduate Faculty Professor; B.S., West Chester University; M.M., The University of Rochester, Eastman School of Music. Rebel since 2002.
McKay, Janis - Full Graduate Faculty Professor; B.M., University of Georgia; M.M., University of Louisville; D.M.A., Ohio State University. Rebel since 1995.
Smith, Andrew - Full Graduate Faculty Associate Professor; B.M., Hartt College of Music; M.M., Mannes College of Music; D.M.A., University of California, Santa Barbara. Rebel since 1995.
Sturm, Marina - Full Graduate Faculty Associate Professor; Wisconsin Conservatory of Music; Institute de Hautes Etudes Musicales; M.M., Victoria University; D.M.A., State University of New York at Stony Brook. Rebel since 2004.
Suk, Mykola - Full Graduate Faculty Associate Professor; B.M./ M.M, D.M.A., Moscow State Conservatory of Music. Rebel since 2001.
Tanouye, Nathan - Associate Graduate Faculty Assistant Professor; B.A., University of Nevada, Las Vegas. Rebel since 2010.
Vega, Diego - Full Graduate Faculty Assistant Professor; Assistant Professor; B.M., Universidad Javeriana; M.M., University of Cincinnati College - Conservatory of Music; D.M.A. Cornell Univerisit. Rebel since 2010.
Weiller, David - Full Graduate Faculty Associate Professor; B.A., Occidental College; M.M., University of Illinois Urbana. Rebel since 1984.

Professors Emeriti
Baley, Virko - Full Graduate Faculty Professor; B.M., M.M., Los Angeles Conservatory of Music and Arts. Rebel since 1970.
Emerson, Isabelle Emeritus Professor; A.B. Barnard College; S.M. Union Theological Seminary; M. PHIL. Columbia University; Ph.D. Columbia University. UNLV Emeritus 1979-2006.
Kimball, Carol A. Emeritus Professor; B. S. New York University; M. A. Arizona State University; D.M.A. Arizona State University. UNLV Emeritus 1972-2008.
Peterson, Douglas Emeritus Professor; B.A. Grinnell College; B.M.E., Florida State University; M.A. University of Iowa; D.M.A., University of Iowa. UNLV Emeritus 1967-2000.
Warrington, Tom - Full Graduate Faculty Professor; B.M., University of Illinois Urbana Campus; M.M. Bowling Green State University. Rebel since 1999.
**Artist Diploma**

**Plan Description**

The Artist Diploma is a two-year program for gifted performers who are looking for advanced instrumental, conducting, or vocal studies without the additional academic demands required in a Doctor of Musical Arts (DMA) or Ph.D. program. Applicants must have already earned a master’s degree or equivalent conservatory or professional experience. This program is limited to the most advanced instrumentalists, vocalists, and conductors, who are in the beginning stages of professional careers as performers.

The Artist Diploma program differs from the Doctor of Musical Arts program in that it is intended for musicians who are solely interested in a career in performance whereas the DMA program is designed for students who may primarily be pursuing a career in academia. The curriculum is limited to applied lessons, ensembles, and performance related seminars in order to provide students with the maximum opportunity to refine their performance skills. The Artist Diploma recipient will be prepared to go on to participate in international competitions, audition for professional orchestras and opera companies, and embark on a performance career.

The student in the Artist Diploma program is at the beginning stages of a career in performance, as opposed to the Doctor of Musical Arts degree, which prepares the student for a career in academia. The type of focused study on performance in the Artist Diploma program prepares students for professional opportunities such as regional, national, and international competitions, auditions for opera companies, and symphony orchestras.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

Students applying for admission to the Artist Diploma program must apply online through the Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. In addition to submitting an application and transcripts of all college-level work to the Graduate College, prospective students must present the following credentials:

2. Prospective students must also present credentials to the School of Music. Under the Program Information section of the online application, the specific concentration must be listed. The following credentials must be presented to the School of Music:

3. Instrumental and Vocal Performance Tracks:

   1. Three to five confidential letters of recommendation.
   2. A successful on-campus performance audition.

4. Conducting Track:

   1. Three to five confidential letters of recommendation.
   2. A videotape or DVD of a rehearsal and performance under the applicant’s direction.
   3. An on-campus conducting audition.

1. Audition requirements and contact information vary by division.

**Plan Requirements**

See Subplan Requirements below.

Subplan 1: Instrumental Track
Subplan 2: Vocal Track
Subplan 3: Conducting Track

**Subplan 1: Instrumental Track**

Total Credits Required: 42

**Course Requirements**

Fall Semester 1st Year Courses - Credits: 11

- MUSE 521 - Symphony Orchestra
- MUSE 513 - Wind Orchestra
- MUSA 761 - Applied Music
- MUS 775 - Performance Seminar
- MUS 798 - Recital

Spring Semester 1st Year Courses - Credits: 11

- MUSE 521 - Symphony Orchestra
- MUSE 513 - Wind Orchestra
- MUSA 761 - Applied Music
- MUS 775 - Performance Seminar
- MUS 798 - Recital

Fall Semester 2nd Year Courses - Credits: 9

- MUSE 521 - Symphony Orchestra
- MUSE 513 - Wind Orchestra
MUSA 761 - Applied Music
MUS 775 - Performance Seminar

Spring Semester 2nd Year Courses - Credits: 11
· MUSE 521 - Symphony Orchestra
· MUSE 513 - Wind Orchestra
MUSA 761 - Applied Music
MUS 775 - Performance Seminar
· MUS 798 - Recital

Subplan 2: Vocal Track
Total Credits Required: 42

Course Requirements

Fall Semester 1st Year Courses - Credits: 11
· MUSE 590 - Special Ensemble
· MUSE 504 - Opera Workshop
MUSA 761 - Applied Music
· MUS 775 - Performance Seminar
· MUS 798 - Recital

Spring Semester 1st Year Courses - Credits: 19
· MUSE 590 - Special Ensemble
· MUSE 504 - Opera Workshop
MUSA 761 - Applied Music
· MUS 775 - Performance Seminaric
· MUS 798 - Recital

Fall Semester 2nd Year Courses - Credits: 9
· MUSE 504 - Opera Workshop
· MUSE 590 - Special Ensemble
MUSA 761 - Applied Music
· MUS 775 - Performance Seminar

Spring Semester 2nd Year Courses - Credits: 11
· MUSE 504 - Opera Workshop
· MUSE 590 - Special Ensemble
MUSA 761 - Applied Music
· MUS 775 - Performance Seminar
· MUS 798 - Recital

Subplan 3: Conducting Track
Total Credits Required: 42

Course Requirements

Fall Semester 1st Year Courses - Credits: 19
· MUSA 761 - Applied Music
· MUSE 521 - Symphony Orchestra
· MUSE 513 - Wind Orchestra
· MUS 720 - Instrumental Music Reading and Conducting Workshop
· MUS 798 - Recital

Spring Semester 1st Year Courses - Credits: 11
· MUSA 761 - Applied Music
· MUSE 521 - Symphony Orchestra
· MUSE 513 - Wind Orchestra
· MUS 727G - Survey of Ensemble-Band
· MUS 798 - Recital

Fall Semester 2nd Year Courses - Credits: 16
· MUSA 761 - Applied Music
· MUSE 521 - Symphony Orchestra
· MUSE 513 - Wind Orchestra
· MUS 747F - Instrumental Music-Band

Spring Semester 2nd Year Courses - Credits: 11
· MUSE 521 - Symphony Orchestra
· MUSE 513 - Wind Orchestra
· MUSA 761 - Applied Music
· MUS 775 - Performance Seminar
· MUS 798 - Recital

Certificate Requirements
1. Maintain a cumulative GPA of 3.0/4.0 or above for each semester enrolled.
2. Receive a grade of B (3.0) or above (or satisfactory, if applicable) in all courses. If less than a B (or satisfactory) is earned, the course may be repeated.

Plan Certificate Completion Requirements
1. A minimum of 42 credit hours is required to complete the Artist Diploma.
2. The Final Recital will be the Culminating Experience for the Artist Diploma.
Doctor of Musical Arts

This program (Applied Music) is accredited by: NASM. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Doctor of Musical Arts degree represents the highest level of academic and musical achievement at UNLV. The program is designed for those students who choose to pursue careers in both performance and college-level teaching.

Our program provides intensive academic preparation and teaching of the type that will enable students to be effective pedagogues and to function successfully in an academic environment while continuing their development as performing artists.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Applied Brass, Piano, Strings, Woodwinds
- Applied Music: Applied Conducting
- Applied Music: Applied Percussion
- Applied Music: Applied Voice

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students applying for admission to the Doctor of Musical Arts degree program must make application through the Graduate College. There are different deadlines for international students, and for students who wish to apply for assistantships, which are also found on the Graduate College website. In addition to submitting an application and transcripts of all college-level work to the Graduate College, prospective students must have a Master’s degree in music from a NASM accredited institution.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. In addition to submitting an application and transcripts of all college-level work to the Graduate College, prospective students must present the following credentials:

1. An overall undergraduate GPA and master’s GPA of at least 2.75 (or 3.00 in the last two years of undergraduate study).
2. An undergraduate GPA of at least 3.00 in music.

Prior to registration, all School of Music graduate students must take placement examinations in music history, theory, and aural skills/sight-singing, regardless of their area of concentration. Passing scores on these exams, or passing grades in the appropriate history or theory review courses (B or above) are required before students may enroll in graduate-level history and theory courses. Credit for review courses will not be applied towards the degree.

Prospective students must also present credentials to the School of Music. Under the Program Information section of the online application, please be sure to list your specific concentration. The following credentials must be presented to the School of Music:

Performance Tracks

1. Three confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
2. A 500-word essay defining career goals and explaining how graduate studies in music will advance the applicant toward these goals.
3. A successful on-campus performance audition.
4. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.

Conducting Tracks

1. Three confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
2. A 500-word essay defining career goals and explaining how graduate studies in music will advance the applicant toward these goals.
3. A videotape or DVD of a rehearsal and performance under the applicant’s direction.
4. An on-campus conducting audition.
5. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Brass Track

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 4

- MUS 773 - Research Seminar
- MUS 719 - Teaching Music in Higher Education
History/Literature Courses – Credits: 9
Complete 9 credits from following list of courses:
- MUS 770 - Seminar: Special Topics
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Seminar: Special Topics

Pedagogy Course – Credits: 3
Complete three credits from the following list of courses:
- MUS 747B - Instrumental Music-Brass
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Lessons Courses – Credits: 16
Complete 16 credits from the following course corresponding to the student’s primary instrument:
- MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble (1 large, 1 chamber) coursework.

Recital Courses – Credits: 9
- MUS 798 - Recital

Lecture-Recital Course – Credits: 3
- MUS 781 - Lecture-Recital

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved elective coursework.

Document Course – Credits: 2
- MUS 780 - Document

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Piano Track
Total Credits Required: 60

Course Requirements
Required Courses – Credits: 4
- MUS 773 - Research Seminar
- MUS 719 - Teaching Music in Higher Education

Solo Repertoire Course – Credits: 3
- MUS 726 - Survey of Solo Repertoire

History/Literature Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770 - Seminar: Special Topics
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
Graduate Catalog • College of Fine Arts 361

MUS 707 - Analysis in Relation to Performance
MUS 708 - Aspects of Musical Style
MUS 774 - Seminar in Music Theory
MUS 770 - Seminar: Special Topics

Pedagogy Course – Credits: 3
Complete three credits from the following list of courses:
- MUS 747D - Instrumental Music-String
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Lessons Course – Credits: 16
Complete 16 credits from the following course:
- MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble (1 large, 1 chamber) coursework.

Recital Courses – Credits: 9
- MUS 798 - Recital

Lecture-Recital Course – Credits: 3
- MUS 781 - Lecture-Recital

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved elective coursework.

Document Course – Credits: 2
- MUS 780 - Document

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: String Track
Total Credits Required: 60

Course Requirements

Required Courses – Credits: 4
- MUS 773 - Research Seminar
- MUS 719 - Teaching Music in Higher Education

History/Literature Courses – Credits: 9
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770 - Seminar: Special Topics

- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 770 - Seminar: Special Topics
- MUS 774 - Seminar in Music Theory

Pedagogy Course – Credits: 3
Complete three credits from the following list of courses:
- MUS 747D - Instrumental Music-String
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Lessons Courses – Credits: 16
Complete 16 credits from the following course corresponding to the student’s primary instrument:
- MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble (1 large, 1 chamber) coursework.

Recital Courses – Credits: 9
- MUS 798 - Recital

Lecture-Recital Course – Credits: 3
- MUS 781 - Lecture-Recital

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved elective coursework.
Document Course – Credits: 2
· MUS 780 - Document

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Woodwind Track
Total Credits Required: 60

Course Requirements
Required Courses – Credits: 4
· MUS 773 - Research Seminar
· MUS 719 - Teaching Music in Higher Education

History/Literature Courses – Credits: 9
Complete 9 credits from following list of courses:
· MUS 770 - Seminar: Special Topics
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
· MUS 789 - The Art Song
· MUS 792 - History of Opera
· MUS 793 - Medieval and Renaissance Music
· MUS 794 - Music of the Baroque Period
· MUS 795 - Classical and Early Nineteenth-Century Music
· MUS 796 - Music of the Romantic Period
· MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
· MUS 501 - Counterpoint
· MUS 705 - Techniques of the Romantic Period
· MUS 706 - Twentieth-Century Techniques
· MUS 707 - Analysis in Relation to Performance
· MUS 708 - Aspects of Musical Style
· MUS 774 - Seminar in Music Theory
· MUS 770 - Seminar: Special Topics

Pedagogy Course – Credits: 3
Complete three credits from the following list of courses:
· MUS 747C - Instrumental Music-Woodwind

Applied Lessons Courses – Credits: 16
Complete 16 credits from the following course corresponding to the student’s primary instrument:
· MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble (1 large, 1 chamber) coursework.

Recital Courses – Credits: 9
· MUS 798 - Recital

Lecture-Recital Course – Credits: 3
· MUS 781 - Lecture-Recital

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved elective coursework.

Document Course – Credits: 2
· MUS 780 - Document

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Conducting (Wind Band) Track
Total Credits Required: 60

Course Requirements
Required Courses – Credits: 4
· MUS 773 - Research Seminar
· MUS 719 - Teaching Music in Higher Education

History/Literature Required Course – Credits: 3
· MUS 727 - Survey of Ensemble Repertoire

History/Literature Electives Courses – Credits: 6
Complete 6 credits from following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770 - Seminar: Special Topics
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo

Elective Courses – Credits: 6
Complete 6 credits from following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770 - Seminar: Special Topics
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
Subplan 6 Requirements: Conducting (Orchestra) Track
Total Credits Required: 60

Course Requirements

Required Courses – Credits: 4
- MUS 773 - Research Seminar
- MUS 719 - Teaching Music in Higher Education

History/Literature Required Course – Credits: 3
- MUS 727 - Survey of Ensemble Repertoire

History/Literature Elective Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770 - Seminar: Special Topics
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 786E - American Opera Seminar
- MUS 786F - American Opera Seminar
- MUS 786G - American Opera Seminar
- MUS 787 - Music of the Twentieth Century
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Seminar: Special Topics

Pedagogy Courses – Credits: 6
- MUS 720 - Instrumental Music Reading and Conducting Workshop
- MUS 747F - Instrumental Music-Band

Applied Lessons Course – Credits: 16
Complete 16 credits from the following course:
- MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Recital Courses – Credits: 9
- MUS 798 - Recital

Lecture-Recital Course – Credits: 3
- MUS 781 - Lecture-Recital

Elective Courses – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Document Course – Credits: 2
- MUS 780 - Document

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.
Applied Lessons Courses – Credits: 16
Complete 16 credits from the following:
· MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Recital Courses – Credits: 9
· MUS 798 - Recital

Lecture-Recital Course – Credits: 3
· MUS 781 - Lecture-Recital

Elective Courses – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Document Course – Credits: 2
· MUS 780 - Document

Graduation Requirements
See Plan Graduation Requirements below.

Degree Requirements
See Plan Degree Requirements below.

Subplan 7 Requirements: Percussion Track
Total Credits Required: 60

Course Requirements

Required Courses – Credits: 4
· MUS 773 - Research Seminar
· MUS 719 - Teaching Music in Higher Education

History/Literature Courses – Credits: 9
Complete 9 credits from following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770 - Seminar: Special Topics
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
· MUS 786D - American Opera Seminar
· MUS 789 - The Art Song
· MUS 792 - History of Opera
· MUS 793 - Medieval and Renaissance Music
· MUS 794 - Music of the Baroque Period
· MUS 795 - Classical and Early Nineteenth-Century Music
· MUS 796 - Music of the Romantic Period
· MUS 797 - Music of the Twentieth Century
· MUS 726D - Survey of Solo-Percus
· MUS 727D - Survey of Ensemble-Percus
· MUS 728 - Percussion Literature and Pedagogy

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
· MUS 501 - Counterpoint
· MUS 705 - Techniques of the Romantic Period
· MUS 706 - Twentieth-Century Techniques
· MUS 707 - Analysis in Relation to Performance
· MUS 708 - Aspects of Musical Style
· MUS 774 - Seminar in Music Theory
· MUS 770 - Seminar: Special Topics

Pedagogy Courses – Credits: 9
· MUS 777 - Seminars in Percussion

Applied Lessons Course – Credits: 16
Complete 16 credits from the following course:
· MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Recital Course – Credits: 9
· MUS 798 - Recital

Lecture-Recital Course – Credits: 3
· MUS 781 - Lecture-Recital

Document Course – Credits: 2
· MUS 780 - Document

Degree Requirements
See Plan Degree Requirements below.

Subplan 8 Requirements: Voice Track
Total Credits Required: 60

Course Requirements

Required Courses – Credits: 4
· MUS 773 - Research Seminar
· MUS 719 - Teaching Music in Higher Education
History/Literature Courses – Credits: 9
Complete 9 credits from following list of courses:
- MUS 770 - Seminar: Special Topics
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6
Complete 6 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Seminar: Special Topics

Pedagogy Courses – Credits: 6
Complete six credits from the following list of courses:
- MUS 717 - Master Class in Singer’s Diction
- MUS 718A - Graduate Seminar in Voice-German
- MUS 718B - Graduate Seminar in Voice-French
- MUS 718C - Doctoral Seminar in Voice-Italian
- MUS 718D - Graduate Seminar in Voice: American Song
- MUS 727F - Survey of Ensemble-Vocal
- MUS 746 - Master Class in Vocal Pedagogy
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Lessons Course – Credits: 16
Complete 16 credits from the following course:
- MUSA 764 - Applied Music for Doctoral Students

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Recital Course – Credits: 9
- MUS 798 - Recital

Lecture-Recital Course – Credits: 3
- MUS 781 - Lecture-Recital

Elective Courses – Credits: 3
Complete one of the following courses:
- MUS 718A - Graduate Seminar in Voice-German
- MUS 718B - Graduate Seminar in Voice-French
- MUS 718C - Doctoral Seminar in Voice-Italian

Document Course – Credits: 2
- MUS 780 - Document

Degree Requirements:
See Plan Degree Requirements below.

Graduation Requirements:
See Plan Graduation Requirements below.

Plan Degree Requirements:
1. The student must complete a minimum of 60 credits.
2. Throughout work for the degree, the student must maintain a minimum GPA of 3.00 with no course work receiving a grade of B- or below. If a student receives a grade of B- or below, the course must be retaken. If the student’s cumulative GPA falls below 3.00, the student may be separated from the program.
3. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester. If the School of Music determines that a student is not making satisfactory progress toward the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. The department will provide the student with the specific requirements, including deadlines, which must be completed for the student to be removed from probation.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least four departmental members. In addition, a fifth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Advisors are assigned by the Graduate Coordinator and are usually the student’s major teacher. New graduate students should schedule an appointment with their advisor before registering for classes to determine course of study and will be advised upon matriculation as to which, if any, areas need special attention. Advisors take an active role in assisting to correct any student deficiencies by suggesting appropriate course work. Meetings should continue on a regular basis to assure appropriate progress towards the degree.

6. Participation in large ensembles is required throughout the student’s residency. Some areas may have more specific large and small ensemble requirements. Students should consult their advisor for more details.

7. Reading knowledge of at least one foreign language is required for the DMA: French, German, Spanish, or Italian. With permission of the School of Music Graduate Committee, another language may be substituted. Students whose native language is not English may not use English or their native language to fulfill this requirement. This requirement must be fulfilled before the student schedules their qualifying exams. Students may fulfill the language requirement by doing one of the following:

   a. Pass the Foreign Language Proficiency Exam in one of the approved languages.
      i. The Foreign Language Proficiency Exam typically involves the translation of a 350 to 500-word text in a 90-minute period – the student may use a dictionary during the exam.
      ii. Students interested in this option should first contact the Graduate Coordinator to schedule the exam. The exam content will be selected from a Departmental set of translation excerpts.
      iii. Once complete, the exam is graded by a member of the Foreign Language Department, and the results are documented in completion of the DMA Foreign Language Evaluation form by the person overseeing the exam and should be sent to the Graduate Coordinator for the student’s file.
      iv. If the student does not succeed in passing the Foreign Language Proficiency Exam, they must fulfill the foreign language requirement by completing option b below.

   b. Complete two successive semesters of regular undergraduate foreign language courses while in residence for the DMA at UNLV in French, German, or Italian with a grade of B (3.0) or better in each course. Students may choose as a starting point the course that best suits their current level of competency.
      i. Contact the School of Music for a list of UNLV courses that may be taken to fulfill this requirement.
      ii. Students must formally petition the School of Music Graduate Committee in advance if they wish to substitute a language for French, German, Spanish, or Italian.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her doctoral document by the posted deadline. The defense must be advertised and is open to the public.

3. After the defense, the student must electronically submit a properly formatted pdf copy of their document to the Graduate College for format check. Once the document format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for defenses, format check submissions, and the final ProQuest submission can be found here.
Graduate Certificate in Teacher Licensure

Plan Description

The Graduate Certificate Program in Teacher Licensure is offered by the School of Music for students who have already completed a Master of Music degree. Like the Master of Music Graduate Licensure Program (GLP) the certificate program will be advised by the Music Education Coordinator; the majority of coursework is offered in the School of Music/College of Fine Arts. This program allows for the School of Music to meet the needs of Master of Music degree students seeking state teacher licensure requirements and provides for a stronger program than would be available through the state Alternate Licensure Program (ALP).

The Graduate Certificate Program in Teacher Licensure offers coursework that is required for licensure by the State of Nevada not available or required for Master of Music degrees in Performance, Music Education, Composition, or Conducting. The certificate will also include coursework enabling students to complete licensure requirements without obtaining a second Master of Music degree.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Students must have an earned Bachelor’s degree with overall GPA of 2.75 or above in a Comprehensive Subject Area (Vocal/General or Instrumental).

2. Content coursework related to general music core for music majors that mirrors the music education majors must be on transcript (music theory, music history, conducting, piano, private instruction and ensembles.)

3. Passing scores in reading, writing, and mathematics on the Praxis I Pre-Professional Skills Test examination.


6. Documentation of immunizations with UNLV Admissions and Records.

7. Field-based experiences (practicum and student teaching) require fingerprinting in compliance with the Clark County School District (CCSD) policy.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Plan Requirements

Total Credits Required: 43

Course Requirements

Required Courses – Credits: 39

- CIS 601 - Secondary Teacher Development Seminar
- EPY 708 - Human Learning and Development
- MUS 502 - School Music Practicum
- MUS 575 - Instrumental Methods
- MUS 576 - Choral Methods
- MUS 578 - Teaching of General Music
- MUS 581E - Elementary Supervised Student Teaching: Music
- MUS 581S - Secondary Supervised Student Teaching: Music
- MUS 640 - Foundations and Principles of Music Education
- MUS 650 - Educational Measurement in Music
- MUS 655 - Teaching Music and Exceptional Learners

Note: MUS 502 requires a $100 lab fee, and MUS 581E and MUS 581S both require $400 lab fees.

Conducting Course – Credits: 3

Complete one of the following courses:

- MUS 721 - Large Ensemble Conducting and Literature
- MUS 722 - Instrumental Conducting Seminar
- MUS 723 - Advanced Choral Conducting
- MUSA 760 - Secondary Applied Music for Doctoral Students

Culminating Experience – Credits: 1

- MUS 697 - Music Culminating Experience

Certificate Requirements

Completion of a minimum of 43 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Master of Music
This program (Music Education, Performance, Conducting, or Composition) is accredited by: NASM. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description
The Master of Music degree at UNLV conforms to the following qualifying prerequisites and guidelines for study set forth by the National Association of Schools of Music:

1. Demonstrate baccalaureate-level capabilities in basic music competencies.
2. Demonstrate sufficient knowledge and skill in English to pursue advanced studies.

Mission
The mission of the Master of Music degree at UNLV is to prepare musicians and music educators for careers in performance and education.

The minimum number of credits required for the Master of Music degree varies with each major option.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Master of Music - Music Education; Concentration in Graduate Licensure
- Master of Music - Music Education; Concentration in Orff Schulwerk
- Master of Music - Music Education; Concentration in Traditional
- Master of Music - Performance; Concentration in Jazz
- Master of Music - Theory/Composition; Concentration in Classical
- Master of Music - Theory/Composition; Concentration in Jazz
- Master of Music; Concentration in Conducting
- Master of Music; Concentration in Multiple Woodwinds
- Master of Music; Concentration in Performance

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Students applying for admission to the Master of Music degree program must apply online through the Graduate College website. There are different deadlines for international students, and for students who wish to apply for assistantships, which are also found on the Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. In addition to submitting an application and transcripts of all college-level work to the Graduate College, prospective students must present the following credentials:

1. An overall undergraduate GPA of at least 2.75 (or 3.00 in the last two years of undergraduate study).
2. An undergraduate GPA of at least 3.00 in music.

Prior to registration, all School of Music graduate students must take placement examinations in music history, theory, and aural skills/sight-singing, regardless of their area of concentration. Passing scores on these exams, or passing grades in the appropriate history or theory review courses (B or above) are required before students may enroll in graduate level history and theory courses. Credit for review courses will not be applied towards the degree.

Prospective students must also present credentials to the School of Music. Under the Program Information section of the online application, please be sure to list your specific concentration. The following credentials must be presented to the School of Music:

Performance Tracks

1. Two confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
2. A 500-word essay defining career goals and explaining how graduate studies in music will advance the applicant toward these goals.
3. A successful on-campus performance audition.
4. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.

Theory/Composition Tracks

1. Two confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
2. A 500-word essay defining career goals and explaining how graduate studies in music will advance the applicant toward these goals.
3. A portfolio of compositions including at least one work from three of the following categories: a) orchestra, band or chorus; b) solo instrument and piano or for solo piano; c) string quartet, brass quintet, woodwind quintet, or other small ensemble; d) set of songs for solo voice and piano; e) original composition scored for jazz ensemble. Additional works may be included.
4. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.
Music Education Tracks

1. An undergraduate degree in Music Education or the equivalent is required for admission to the program.
3. Two confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
4. A 500-word essay on the applicant’s philosophy of music education.
5. An undergraduate degree in Music Education or the equivalent is required for admission to the program.
6. Provide portfolio evidence of two years of successful music teaching experience in the public school. This evidence may include, but is not limited to:
   a. A current resume
   b. A copy of your teaching credential
   c. Representative lesson plans for two classes
   d. Audio and/or video of your students’ learning or performing.
   e. Programs and other materials demonstrating programs you have given in the past two years
7. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.

Conducting Tracks

1. Two confidential letters of recommendation from former instructors attesting to the student’s ability to complete graduate work at an acceptable level.
2. A 500-word essay defining career goals and explaining how graduate studies in music will advance the applicant toward these goals.
3. A videotape or DVD of a rehearsal and performance under the applicant’s direction.
4. An on-campus conducting audition.
5. All auditions must be presented by April 15 for fall semester admission and by October 15 for spring semester admission. Audition length, requirements, and contact information vary by area. Please consult the area coordinator for further information.

Graduate Licensure Tracks

The Music Graduate Licensure Program is a graduate program offered by the School of Music leading to an elementary or secondary teaching license and a Master of Music (M.M.).

Students are not admitted during the summer; however, potential candidates may enroll in select courses, as non-admitted graduate students, while awaiting admission to the program. Students should apply for admission to the Graduate College. Once accepted to the Graduate Licensure Program, students should complete the course requirement worksheets they receive and contact their advisors to schedule initial appointments.

1. Students must have an earned Bachelor’s degree with overall GPA of 2.75 or above in the Comprehensive Subject Area (Vocal/General or Instrumental).
2. Content coursework related to general music core for music majors that mirrors the music education majors must be on transcript (music theory, music history, conducting, piano, private instruction and ensembles.)
3. Passing scores in reading, writing, and mathematics on the Praxis I Pre-Professional Skills Test examination.
6. Documentation of immunizations with UNLV Admissions and Records.
7. Field-based experiences (practicum and student teaching) require fingerprinting in compliance with the Clark County School District (CCSD) policy.

Music History Placement Examination

The examination is an assessment of accumulated knowledge. Students may wish to prepare, however, by reviewing the facts and concepts in J. Peter Burkholder, Donald J. Grout, and Claude V. Palisca, A History of Western Music, 7th edition (New York: W.W. Norton, 2006), the volumes of the Prentice Hall History of Music series, or similar texts. Students who show deficiencies in music history will be required to register for MUS 603 - Graduate Music History Review

The examination is given prior to the first day of instruction for the Fall semester. The exact date, time, and location may be found on the School of Music website. Students must take the exam at the designated time; no make-up examinations will be given. Students who fail to take the exam at the scheduled time must complete MUS 603 before enrolling in any other music history course. This course is offered in the Fall semesters only.

For more specific details concerning the placement exam, please consult the Music History Handbook, available on the School of Music website or contact Dr. Anthony Barone (702) 895-5953, (anthony.barone@unlv.edu).

Graduate Music Theory and Aural Skills/Sight-singing Placement Examination

A sample graduate theory placement exam may be found on the School of Music website

The Graduate Aural Skills/Sight-singing Placement Examination consists of:
1. Two-voice dictation
2. Three-voice dictation
3. Harmonic dictation
4. Two-part rhythmic dictation
5. Sight-singing of a melody in any of the modern clefs (treble, alto, tenor, bass). A single melody may contain clef changes.

Students who show deficiencies in music theory and/or aural skills/sight-singing will be required to register for MUS 604 - Graduate Theory Review and/or MUS 602 - Graduate Ear Training Review.

The Graduate Music Theory and Aural Skills/Sight-singing Placement Examination is given prior to the first day of instruction for the Fall semester and the Spring semester. The exact date, time, and location may be found on the School of Music website.

Students must take the exam at the designated time; no make-up examinations will be given. Students who fail to take the exams at the scheduled time must complete MUS 604 and MUS 602 before enrolling in any other music theory course.

For more specific details concerning the placement exam, please contact the School of Music Office or the Graduate Coordinator (702) 895-3332.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Instrumental Performance

Total Credits Required: 33

Course Requirements

Required Course – Credits: 3

- MUS 690 - Bibliography

Music History Courses – Credits: 6

Complete 6 credits from following list of courses:

- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 770 - Seminar: Special Topics
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3

Complete 3 credits from following list of courses:

- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era

Pedagogy and Literature Course – Credits: 3

Complete one of the following advisor-approved courses:

- MUS 728 - Percussion Literature and Pedagogy
- MUS 746 - Master Class in Vocal Pedagogy
- MUS 747 - Instrumental Music Pedagogy
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Music Courses – Credits: 8

Ensemble Course – Credits: 5

Complete 5 credits of advisor-approved ensemble coursework.

Recital Course – Credits: 2

- MUS 698 - Recital-Master's Level

Elective Course – Credits: 3

Complete 3 credits of advisor-approved elective coursework.
Degree Requirements
1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.
5. Students must participate in one major ensemble and one chamber ensemble.
6. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
7. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
8. All candidates for the Master of Music degree in Applied Music are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Vocal Performance
Total Credits Required: 33

Course Requirements
Required Course – Credits: 3
- MUS 690 - Bibliography

Music History Courses – Credits: 6
Complete 6 credits from the following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 3
Complete 3 credits from the following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory

Pedagogy and Literature Courses – Credits: 3
Complete one of the following advisor-approved courses:
- MUS 728 - Percussion Literature and Pedagogy
- MUS 746 - Master Class in Vocal Pedagogy
- MUS 747 - Instrumental Music Pedagogy
MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Diction Course – Credits: 3
· MUS 717 - Master Class in Singer’s Diction

Applied Music Courses – Credits: 8

Ensemble Courses – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Recital Course – Credits: 2
· MUS 698 - Recital-Master’s Level

Elective Course – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Degree Requirements
1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.
5. Students must participate in one major ensemble and one chamber ensemble.
6. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
7. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
8. All candidates for the Master of Music degree in Applied Music are required to take written and oral comprehensive examinations.
9. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
10. The comprehensive exams are taken during the term in which the student intends to graduate.
11. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Collaborative Piano
Total Credits Required: 30

Course Requirements

Required Course – Credits: 3
· MUS 690 - Bibliography

Music History Courses – Credits: 6
Complete 6 credits from following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770A - Graduate History Seminar
· MUS 770B - Beethoven
· MUS 770C - Fin de Siecle
· MUS 770D - Music of Wagner
· MUS 770E - Music of Bach
· MUS 770F - Music of Stravinsky
· MUS 770G - History of Russian Music
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
· MUS 786D - American Opera Seminar
· MUS 789 - The Art Song
· MUS 792 - History of Opera
· MUS 793 - Medieval and Renaissance Music
· MUS 794 - Music of the Baroque Period
· MUS 795 - Classical and Early Nineteenth-Century Music
· MUS 796 - Music of the Romantic Period
· MUS 797 - Music of the Twentieth Century
Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
  · MUS 501 - Counterpoint
  · MUS 705 - Techniques of the Romantic Period
  · MUS 706 - Twentieth-Century Techniques
  · MUS 707 - Analysis in Relation to Performance
  · MUS 708 - Aspects of Musical Style
  · MUS 774 - Seminar in Music Theory
  MUS 770 - Techniques of the Classical Era
  MUS 770 - Techniques of the Baroque Era

Pedagogy and Literature Course – Credits: 3
Complete one of the following advisor-approved courses:
  · MUS 728 - Percussion Literature and Pedagogy
  · MUS 746 - Master Class in Vocal Pedagogy
  · MUS 747 - Instrumental Music Pedagogy
  · MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Music Courses – Credits: 8
Ensemble Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Accompanying Courses – Credits: 2
  · MUSE 572 - Accompanying

Elective Course – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Degree Requirements
1. Successful completion of a minimum of 30 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. Students must participate in one major ensemble and one chamber ensemble.
6. MUSA 661 includes two recitals, one with vocalists, and one with instrumentalists.
7. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
8. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
9. All candidates are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Multiple Woodwind
Total Credits Required: 38

Course Requirements
Required Course – Credits: 3
  · MUS 690 - Bibliography

Music History Courses – Credits: 3
Complete 3 credits from following list of courses:
  · MUS 529 - Interpretation: German Lied
  · MUS 530 - French Melodie
  · MUS 770A - Graduate History Seminar
  · MUS 770B - Beethoven
  · MUS 770C - Fin de Siecle
  · MUS 770D - Music of Wagner
  · MUS 770E - Music of Bach
  · MUS 770F - Music of Stravinsky
  · MUS 770G - History of Russian Music
  · MUS 785 - The Symphony
MUS 786A - The Operas of Mozart
MUS 786B - The Operas of Verdi
MUS 786C - Puccini and the Verismo
MUS 786D - American Opera Seminar
MUS 789 - The Art Song
MUS 792 - History of Opera
MUS 793 - Medieval and Renaissance Music
MUS 794 - Music of the Baroque Period
MUS 795 - Classical and Early Nineteenth-Century Music
MUS 796 - Music of the Romantic Period
MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era

Pedagogy and Literature Course – Credits: 6
Complete one of the following advisor-approved courses:
- MUS 728 - Percussion Literature and Pedagogy
- MUS 746 - Master Class in Vocal Pedagogy
- MUS 747 - Instrumental Music Pedagogy
- MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers

Applied Music Courses – Credits: 8
Secondary Applied Music Courses – Credits: 8
Ensemble Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.
Recital Course – Credits: 2
MUS 698 - Recital-Master’s Level

Elective Course – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Degree Requirements
1. Successful completion of a minimum of 38 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.
5. Students must participate in one major ensemble and one chamber ensemble.
6. Secondary Instruments are to be selected based on the entrance audition in consultation with the advisor. Requirements for each secondary instrument may be satisfied by examination at the discretion of the department. Equivalent credits (4) shall be taken on another woodwind instrument or as an elective.
7. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
8. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
9. All candidates are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Jazz and Commercial Music Performance
Total Credits Required: 33
Course Requirements
Required Course – Credits: 3
· MUS 690 - Bibliography

Jazz History Course – Credits: 3
· MUS 783 - Jazz History Seminar

Jazz Theory Course – Credits: 3
· MUS 609 - Jazz Theory and Composition

Jazz Pedagogy Course – Credits: 3
· MUS 613 - Jazz Pedagogy

Jazz Keyboard Course – Credits: 3
· MUS 611 - Jazz Keyboard and Arranging

Applied Lessons Courses – Credits: 8

Ensembles Courses – Credits: 5
Complete 5 credits of advisor-approved ensemble coursework.

Recital Course – Credits: 2
· MUS 698 - Recital-Master’s Level

Music History Elective Course – Credits: 3
Complete 3 credits from following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770A - Graduate History Seminar
· MUS 770B - Beethoven
· MUS 770C - Fin de Siecle
· MUS 770D - Music of Wagner
· MUS 770E - Music of Bach
· MUS 770F - Music of Stravinsky
· MUS 770G - History of Russian Music
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
· MUS 786D - American Opera Seminar
· MUS 789 - The Art Song
· MUS 792 - History of Opera
· MUS 793 - Medieval and Renaissance Music
· MUS 794 - Music of the Baroque Period
· MUS 795 - Classical and Early Nineteenth-Century Music
· MUS 796 - Music of the Romantic Period
· MUS 797 - Music of the Twentieth Century

Degree Requirements
1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.
5. Students must participate in one major ensemble and one chamber ensemble.
6. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
7. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
8. All candidates are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Composition
Total Credits Required: 33
Course Requirements

Required Course – Credits: 3

- MUS 690 - Bibliography

Music History Courses – Credits: 6

Complete 6 credits from following list of courses:

- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Sicle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Courses – Credits: 6

Complete 6 credits from following list of courses:

- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era
- MUS 774 - Seminar in Music Theory

Applied Music Courses – Credits: 4

Composition Courses – Credits: 8

MUSA 661W - Applied Music for Master’s Students

Ensemble Course – Credits: 1

Complete 1 credit of advisor-approved ensemble coursework.

Recital Course – Credits: 2

- MUS 698 - Recital-Master’s Level

Elective Course – Credits: 3

Complete 3 credits of advisor-approved elective coursework.

Degree Requirements

1. Successful completion of a minimum of 33 credits.

2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.

3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.

4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.

6. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.

7. All candidates for the Master of Music degree in Theory/Composition are required to take oral comprehensive examinations.

   1. The Master of Music comprehensive examinations consist of an oral examination.

   2. The comprehensive exams are taken during the term in which the student intends to graduate.

   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.
4. Having passed the theory placement test before the beginning of the first semester or having passed the music theory review courses (MUS 602, MUS 604) before being able to take any graduate-level theory classes.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 7 Requirements: Jazz & Commercial Music Composition

Total Credits Required: 33

Course Requirements

Required Course – Credits: 3
· MUS 690 - Bibliography

Jazz History Course – Credits: 3
· MUS 603 - Graduate Music History Review

Jazz Theory Course – Credits: 3
· MUS 609 - Jazz Theory and Composition

Jazz Pedagogy Course – Credits: 3
· MUS 613 - Jazz Pedagogy

Jazz Keyboard Course – Credits: 3
· MUS 611 - Jazz Keyboard and Arranging

Applied Lessons Courses – Credits: 4
MUSA 661V - Applied Music for Master’s Students

Applied Music Course – Credits: 8
Complete 8 credits of the following course.
MUSA 661V - Applied Music for Master’s Students: Private Theory: Jazz

Recital Course – Credits: 2
· MUS 698 - Recital-Master’s Level

Ensemble Course – Credits: 1
Complete 1 credit of advisor-approved ensemble coursework.

Elective Course – Credits: 3
Complete 3 credits of music history electives from the following list of courses:
· MUS 529 - Interpretation: German Lied
· MUS 530 - French Melodie
· MUS 770A - Graduate History Seminar
· MUS 770B - Beethoven
· MUS 770C - Fin de Siecle
· MUS 770D - Music of Wagner
· MUS 770E - Music of Bach
· MUS 770F - Music of Stravinsky
· MUS 770G - History of Russian Music
· MUS 785 - The Symphony
· MUS 786A - The Operas of Mozart
· MUS 786B - The Operas of Verdi
· MUS 786C - Puccini and the Verismo
· MUS 786D - American Opera Seminar
· MUS 789 - The Art Song
· MUS 792 - History of Opera
· MUS 793 - Medieval and Renaissance Music
· MUS 794 - The Operas of Verdi
· MUS 795 - Classical and Early Nineteenth-Century Music
· MUS 796 - Music of the Romantic Period
· MUS 797 - Music of the Twentieth Century

Degree Requirements

1. Successful completion of a minimum of 33 credit hours.

2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.

3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.

4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.

6. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
7. All candidates for the Master of Music degree in Theory/Composition are required to take written and oral comprehensive examinations.

1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.

2. The comprehensive exams are taken during the term in which the student intends to graduate.

3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 8 Requirements: Choral Conducting

Total Credits Required: 33

Course Requirements

Required Course – Credits: 9
- MUS 690 - Bibliography
- MUS 721 - Large Ensemble Conducting and Literature
- MUS 723 - Advanced Choral Conducting

Music History Course – Credits: 6
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era

Conducting Courses – Credits: 8
- MUSA 766 - Private Graduate Conducting

Recital Course – Credits: 2
- MUS 698 - Recital-Master’s Level

Ensembles Course – Credits: 2
Complete 2 credits of advisor-approved ensemble coursework.

Elective Course – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Degree Requirements

1. Successful completion of a minimum of 33 credits.

2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.

3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.

4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. The maximum number of workshop credits is three.
6. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.

7. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.

8. All candidates for the Master of Music degree in Conducting are required to take written and oral comprehensive examinations.

   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 9 Requirements: Orchestral Conducting

Total Credits Required: 33

Course Requirements

Required Course – Credits: 9

   - MUS 690 - Bibliography
   - MUS 721 - Large Ensemble Conducting and Literature
   - MUS 722 - Instrumental Conducting Seminar

Music History Course – Credits: 6

Complete 6 credits from following list of courses:

   - MUS 529 - Interpretation: German Lied
   - MUS 530 - French Melodie
   - MUS 770A - Graduate History Seminar
   - MUS 770B - Beethoven
   - MUS 770C - Fin de Siecle
   - MUS 770D - Music of Wagner
   - MUS 770E - Music of Bach
   - MUS 770F - Music of Stravinsky

   - MUS 770G - History of Russian Music
   - MUS 785 - The Symphony
   - MUS 786A - The Operas of Mozart
   - MUS 786B - The Operas of Verdi
   - MUS 786C - Puccini and the Verismo
   - MUS 786D - American Opera Seminar
   - MUS 789 - The Art Song
   - MUS 792 - History of Opera
   - MUS 793 - Medieval and Renaissance Music
   - MUS 794 - Music of the Baroque Period
   - MUS 795 - Classical and Early Nineteenth-Century Music
   - MUS 796 - Music of the Romantic Period
   - MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3

Complete 3 credits from following list of courses:

   - MUS 501 - Counterpoint
   - MUS 705 - Techniques of the Romantic Period
   - MUS 706 - Twentieth-Century Techniques
   - MUS 707 - Analysis in Relation to Performance
   - MUS 708 - Aspects of Musical Style
   - MUS 774 - Seminar in Music Theory
   - MUS 770 - Techniques of the Classical Era
   - MUS 770 - Techniques of the Baroque Era

Conducting Courses – Credits: 8

Recital Course – Credits: 2

   - MUS 698 - Recital-Master’s Level

Ensembles Course – Credits: 2

   - MUSE 521 - Symphony Orchestra
   - MUSE 522 - Chamber Orchestra

Elective Course – Credits: 3

Complete 3 credits of advisor-approved elective coursework.

Degree Requirements

1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate
degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.

4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.

6. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.

7. All candidates for the Master of Music degree in Conducting are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 10 Requirements: Wind Band Conducting

Total Credits Required: 33

Course Requirements

Required Course – Credits: 9
- MUS 690 - Bibliography
- MUS 721 - Large Ensemble Conducting and Literature
- MUS 722 - Instrumental Conducting Seminar

Music History Course – Credits: 6
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Stravinsky
- MUS 785 - History of Russian Music
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era

Conducting Courses – Credits: 8

Recital Course – Credits: 2
- MUS 698 - Recital-Master's Level

Ensembles Courses – Credits: 2
- MUSE 513 - Wind Orchestra

Elective Course – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Degree Requirements

1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.

3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.

4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.

5. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.

6. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.

7. All candidates for the Master of Music degree in Conducting are required to take written and oral comprehensive examinations.
   1. The Master of Music comprehensive examinations consist of a written examination, and an oral examination.
   2. The comprehensive exams are taken during the term in which the student intends to graduate.
   3. For more specific information, please consult your advisor or the School of Music Graduate Handbook.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 11 Requirements: Music Education

Total Credits Required: 33

Course Requirements

Required Course – Credits: 3
   · MUS 690 - Bibliography

Music History Course – Credits: 6

Complete 6 credits from following list of courses:
   · MUS 529 - Interpretation: German Lied
   · MUS 530 - French Melodie
   · MUS 770A - Graduate History Seminar
   · MUS 770B - Beethoven
   · MUS 770C - Fin de Siecle
   · MUS 770D - Music of Wagner
   · MUS 770E - Music of Bach
   · MUS 770F - Music of Stravinsky
   · MUS 770G - History of Russian Music
   · MUS 785 - The Symphony
   · MUS 786A - The Operas of Mozart
   · MUS 786B - The Operas of Verdi
   · MUS 786C - Puccini and the Verismo
   · MUS 786D - American Opera Seminar
   · MUS 789 - The Art Song
   · MUS 792 - History of Opera
   · MUS 793 - Medieval and Renaissance Music
   · MUS 794 - Music of the Baroque Period
   · MUS 795 - Classical and Early Nineteenth-Century Music
   · MUS 796 - Music of the Romantic Period
   · MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3

Complete 3 credits from following list of courses:
   · MUS 501 - Counterpoint
   · MUS 705 - Techniques of the Romantic Period
   · MUS 706 - Twentieth-Century Techniques
   · MUS 707 - Analysis in Relation to Performance
   · MUS 708 - Aspects of Musical Style
   · MUS 774 - Seminar in Music Theory
   · MUS 770 - Techniques of the Classical Era
   · MUS 770 - Techniques of the Baroque Era

Music Education Courses – Credits: 9

   · MUS 640 - Foundations and Principles of Music Education
   · MUS 641 - Studies in Music Curricula
   · MUS 671 - Research in Music Education

Music Education Elective Course – Credits: 3

Complete 3 credits from the following list of courses:
   · MUS 642 - Orff Schulwerk Teacher Training Certification Level I
MUS 643 - Orff Schulwerk Teacher Training Certification Level II
MUS 644 - Orff Schulwerk Teacher Training Certification Level III
MUS 650 - Educational Measurement in Music
MUS 653 - Teaching Non-Performance Music in Secondary School
MUS 655 - Teaching Music and Exceptional Learners

Elective Course – Credits: 9
Complete 9 credits of advisor-approved applied music or conducting electives.

Degree Requirements

1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a prerequisite for all graduate-level music history classes.
5. The maximum number of workshop credits is three.
6. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
7. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.
8. Candidates for the Master of Music degree in Music Education are required to take a written comprehensive examinat

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 12 Requirements: Music Education - Orff Schulwerk

Total Credits Required: 33

Course Requirements

Required Course – Credits: 3
- MUS 690 - Bibliography

Music History Course – Credits: 6
Complete 6 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century

Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
- MUS 770 - Techniques of the Classical Era
- MUS 770 - Techniques of the Baroque Era

Music Education Courses – Credits: 6
- MUS 640 - Foundations and Principles of Music Education
- MUS 671 - Research in Music Education
Orff Levels I-III Courses – Credits: 9
- MUS 642 - Orff Schulwerk Teacher Training Certification Level I
- MUS 643 - Orff Schulwerk Teacher Training Certification Level II
- MUS 644 - Orff Schulwerk Teacher Training Certification Level III

Elective Course – Credits: 6
Complete 6 credits of advisor-approved Applied Music or Conducting electives.

Degree Requirements
1. Successful completion of a minimum of 33 credits.
2. No more than eight hours of 500-level course work may be applied to the candidate’s degree program.
3. All graduate students in music must maintain a minimum cumulative grade point average (GPA) of 3.00 in all degree-required courses. Only courses for which the student earns a final grade of “A”, “A-”, “B+”, “B”, or “S” may be applied to the graduate degree. A graduate student whose cumulative GPA falls below 3.0 (B) in a given term will be placed on probation for the following term. If a 3.0 cumulative GPA is not attained by the end of the probationary term, the student will either be granted a final opportunity to raise her/his GPA or may be dismissed from the program.
4. Successful completion of MUS 690 - Bibliography, with a minimum grade of B, is a pre-requisite for all graduate-level music history classes.
5. The School of Music reviews the academic performance of graduate students at the end of each academic year and reviews the academic performance of graduate students on assistantships at the end of each semester.
6. If the school determines that a student is not making satisfactory progress towards the degree, it will request that the Graduate Dean separate the student from the department or place the student on probation. A student whose cumulative GPA falls below 3.0 for three successive semesters will be automatically dismissed from the program.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 13 Requirements: Graduate Licensure: K-12 Music
Total Credits Required: 34

Course Requirements
Required Courses – Credits: 9
- MUS 640 - Foundations and Principles of Music Education
- MUS 641 - Studies in Music Curricula
- MUS 671 - Research in Music Education

Program Emphasis Courses – Credits: 12
- CIS 603 - Secondary Process and Instruction
- EPY 708 - Human Learning and Development
- MUS 650 - Educational Measurement in Music
- MUS 655 - Teaching Music and Exceptional Learners

Additional Program Emphasis Course – Credits: 3
Complete one of the following courses:
- MUS 721 - Large Ensemble Conducting and Literature
- MUS 722 - Instrumental Conducting Seminar
- MUS 723 - Advanced Choral Conducting
- MUSA 760 - Secondary Applied Music for Doctoral Students

Music History Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 529 - Interpretation: German Lied
- MUS 530 - French Melodie
- MUS 770A - Graduate History Seminar
- MUS 770B - Beethoven
- MUS 770C - Fin de Siecle
- MUS 770D - Music of Wagner
- MUS 770E - Music of Bach
- MUS 770F - Music of Stravinsky
- MUS 770G - History of Russian Music
- MUS 785 - The Symphony
- MUS 786A - The Operas of Mozart
- MUS 786B - The Operas of Verdi
- MUS 786C - Puccini and the Verismo
- MUS 786D - American Opera Seminar
- MUS 789 - The Art Song
- MUS 792 - History of Opera
- MUS 793 - Medieval and Renaissance Music
- MUS 794 - Music of the Baroque Period
- MUS 795 - Classical and Early Nineteenth-Century Music
- MUS 796 - Music of the Romantic Period
- MUS 797 - Music of the Twentieth Century
Music Theory Course – Credits: 3
Complete 3 credits from following list of courses:
- MUS 501 - Counterpoint
- MUS 705 - Techniques of the Romantic Period
- MUS 706 - Twentieth-Century Techniques
- MUS 707 - Analysis in Relation to Performance
- MUS 708 - Aspects of Musical Style
- MUS 774 - Seminar in Music Theory
  MUS 770 - Techniques of the Classical Era
  MUS 770 - Techniques of the Baroque Era

Internship Course – Credits: 3
- MUS 502 - School Music Practicum

Culminating Experience – Credits: 1
- MUS 697 - Music Culminating Experience

Degree Requirements
1. Successful completion of a minimum of 34 credits with a minimum GPA of 3.00.
2. Students are required to complete the courses as delineated in each phase of the program, both prior to and after, student teaching. In the Graduate Licensure Program, students complete the prerequisites and requirements for licensure (with student teaching) prior to completing the Master’s degree.
3. Continuous enrollment must be maintained unless a letter requesting exemption for the semester in question is submitted. Once admitted, students must take a 500, 600 or 700 level course each semester.
4. CIS 601 must be successfully completed before taking MUS 502.
5. Successful completion of a culminating experience.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

MUS 501 - Counterpoint Credits 3
Analysis of polyphonic practices including sixteenth-, eighteenth-, and twentieth-century styles. Formerly: MUS 610 Notes: This course is crosslisted with MUS 401. Credit at the 500-level requires additional work. Prerequisites: Satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 604.

MUS 502 - School Music Practicum Credits 3
Students complete 45 hours in two placements (elementary and secondary) in music classrooms with teacher supervision to implement instructional plans and lessons and manage classrooms. Notes: Course taken the semester prior to student teaching. Prerequisites: MUS 502

MUS 529 - Interpretation: German Lied Credits 1
Study of German art song from 1700 to the present. Emphasis on style and interpretation, including study of the musical and historical contexts and their effect on poetry and art-song literature. Formerly: MUS 629 Notes: This course is crosslisted with MUS 429. Credit at the 500-level requires additional work. Prerequisites: Satisfactory completion of MUS 690 or equivalent, and satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 603.

MUS 530 - French Melodie Credits 1
Study of French melodie from 1800 to the present. Emphasis on style and interpretation, including the study of the musical and historical contexts and their effect on poetry and art-song literature. Formerly: MUS 630 Notes: This course is crosslisted with MUS 430. Credit at the 500-level requires additional work. Prerequisites: Satisfactory completion of MUS 690 or equivalent, and satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 603.

MUS 553 - Music Skills for Classroom Teachers Credits 3

MUS 575 - Instrumental Methods Credits 3
Overview of instrumental techniques in teaching music in junior and senior high schools. Topics include evaluation and selection of materials, repertoire, curriculum, classroom organization, teacher tools, communications, and use of multimedia and technology. Prerequisites: CIS 601 and PPST. Corequisite: MUS 502

MUS 576 - Choral Methods Credits 3
Overview of vocal techniques in teaching music in junior and senior high schools. Topics include evaluation and selection of materials, repertoire, curriculum, classroom organization, teacher tools, communications, and use of multimedia and technology. Prerequisites: CIS 601 and PPST. Corequisite: MUS 502

MUS 578 - Teaching of General Music Credits 3
Methods of teaching research-based practices and standards based music curriculum in the elementary school. Includes communication skills, instructional delivery, assessment, lesson design and behavior management. Prerequisites: CIS 601 Corequisite: MUS 502

MUS 580 - The Healthy Musician Credits 2
This course gives specific information about practical anatomy and movement. Students will gain ease in performing and learn how improved coordination enables them to avoid fatigue, technical limitation and injury. Prerequisites: Graduate standing in Music.

MUS 581E - Elementary Supervised Student Teaching: Music Credits 6-12
Full time teaching as a teacher candidate in an elementary school related directly to the teaching of music. Teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of an elementary school. Prerequisites: Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores.
MUS 581S - Secondary Supervised Student Teaching: Music
Credits 6-12
Full time teaching as a teacher candidate in a secondary school related directly to the teaching of music. Secondary teacher candidates demonstrate their knowledge, skills and disposition for teaching through directed mentorship from certified licensed teachers and university liaisons/supervisors and participate in all aspects of a secondary school. Prerequisites: Enrolled in a degree-seeking program; minimum 2.75 cumulative GPA, fingerprinting; passing PPST scores.

MUS 590 - Music Internship
Credits 1
Prerequisites: Consent of instructor.

MUS 602 - Graduate Ear Training Review
Credits 2
Designed to develop the student’s ear training and sight-singing skills to the level necessary to pass the Graduate Aural Skills/Sight-singing Placement Examination. Notes: Not credited toward graduate program of study. Grading: S/F grading only.

MUS 603 - Graduate Music History Review
Credits 3
An accelerated survey of composers and works from the Middle Ages to the present, providing graduate students with concepts and historical perspective needed for further graduate music history studies. Notes: Not credited toward graduate program of study.

MUS 604 - Graduate Theory Review
Credits 3
A review of common-practice harmony, counterpoint, and form. Notes: Not credited toward graduate program of study.

MUS 609 - Jazz Theory and Composition
Credits 3
Analytical and written studies covering advanced jazz harmony as it relates to specific style developments in jazz history from the bebop period to present day. Formerly: MUS 703 Prerequisites: Graduate standing, undergraduate course work in jazz theory or consent of instructor.

MUS 611 - Jazz Keyboard and Arranging
Credits 3
Study of advanced keyboard techniques as they apply to jazz composition. Formerly: MUS 711 Prerequisites: Graduate standing; undergraduate course work in jazz keyboard or consent of instructor.

MUS 613 - Jazz Pedagogy
Credits 3
Examination of the basic materials, systems, and philosophies related to jazz education. Formerly: MUS 729 Prerequisites: Graduate standing or consent of instructor.

MUS 617 - Marching Band Techniques
Credits 3
Techniques of charting field movements and arranging musical selections for the marching band. Formerly: MUS 717

MUS 640 - Foundations and Principles of Music Education
Credits 3
Examination of the historical, psychological, and philosophical foundations of music education and teaching principles derived from these foundations. Formerly: MUS 752

MUS 641 - Studies in Music Curricula
Credits 3
Scope and sequence of musical experiences in the school music program including new techniques, trends, and developments in music education influencing change in curricula. Formerly: MUS 751

MUS 642 - Orff Schulwerk Teacher Training Certification
Level I
Credits 3
Development of a sequential teaching curriculum utilizing chants, rhymes, poetry, singing, rhythmic and melodic training, improvisation, the study of pentatonic scales, the ostinato, simple bordun accompaniments, and elemental forms and soprano recorder. Prerequisites: Undergraduate major in music education or consent of instructor.

MUS 643 - Orff Schulwerk Teacher Training Certification
Level II
Credits 3
Extension of Level One techniques with further exploration in the following areas: mixed and uneven meters, harmonizations to include the moving bordun and chord change accompaniments, movement and instrumental improvisation, extended form, and the continuation of the soprano recorder with the introduction of the alto recorder. Students will teach a short lesson demonstrating Orff process. Prerequisites: Successful completion of Orff Schulwerk Teacher Training Level I in an AOSA approved course.

MUS 644 - Orff Schulwerk Teacher Training Certification
Level III
Credits 3
Extension of Level Two techniques with further exploration in instrumental and vocal improvisation; advanced orchestration; major, minor, and modal materials; advanced recorder and movement. Students will teach two short lessons. Prerequisites: Successful completion of Orff Schulwerk Teacher Training Level II in an AOSA approved course.

MUS 645 - History of Orff Schulwerk
Credits 3
A study of the Orff Schulwerk approach through examination of key people and political events, dance and movement practices, pedagogy and orchestra. Level I Orff Schulwerk Teacher Certification or experience teaching in the approach is recommended. Prerequisites: Consent of instructor.

MUS 646 - Advanced Orff Orchestration
Credits 3
A study and practical application of orchestration techniques in the Orff Schulwerk approach to include arranging folk songs, speech and body percussion, non-tuned percussion, recorder and barred percussion instruments. Level II Orff Schulwerk Teacher Certification and 5 years teaching experience in the Orff Schulwerk approach recommended. Prerequisites: Instructor Consent

MUS 650 - Educational Measurement in Music
Credits 3
A study of techniques, administration, and evaluation of tests and measurements appropriate for the K-12 music classroom to include: classroom tests and assessments, multiple-choice tests, performance-based and authentic assessments, observational techniques, achievement and aptitude tests, portfolios, and standardized tests.

MUS 655 - Teaching Non-Performance Music in Secondary School Credits 3
Techniques for teaching and integrating music for preschool and primary children. Participation in musical experiences and performance assignments required. Prerequisites: Graduate or special student status.

MUS 656 - Advanced Studies in Elementary School Music
Credits 3
Review, critical analysis and examination of current pedagogy and materials in the elementary music classroom. Focus includes Kodaly, Orff, Dalcroze, and Gordon approaches, emphasis on the use of technology and the development of sequential experiences which contribute to contribute to children’s musical growth. Formerly: MUS 754

MUS 657 - Teaching Non-Performance Music in Secondary School
Credits 3
Content, organization, and materials of non-performance music classes and teaching units for secondary school students to include: music appreciation, general music, music theory, and music history. Formerly: MUS 749 Prerequisites: Graduate Standing

MUS 655 - Teaching Music and Exceptional Learners
Credits 3
Examination of the legislative, psychological, sociological, and philosophical foundations of music education for special learners and teaching principles derived from these foundations. Active discussion and lesson building, skills and approaches to teach in the music classroom with special learners will be actively included in class meetings. Formerly: MUS 755 Prerequisites: Graduate Standing.

MUS 671 - Research in Music Education
Credits 3
Investigation of methods of research, procedures for reporting research, and examination of research literature in music education. Formerly: MUS 771
MUS 672 - Research Project in Music Education Credits 3
Design and completion of research study using descriptive or experimental research skills in a clinical or educational setting, or using historical research techniques. Formerly: MUS 772 Prerequisites: MUS 671

MUS 680 - Thesis Credits 2-6
May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

MUS 683 - Jazz History Seminar Credits 3
JAZZ HISTORY SEMINAR Grading: Letter grade

MUS 690 - Bibliography Credits 3
Study of the bibliography of music and methods of research. Formerly: MUS 790

MUS 691B - Intermediate Reedmaking for Double Reed Instruments (Bassoon) Credits 1
Applied basic to intermediate reed-making for double reed music majors. Notes: May be repeated to a maximum of 8 credits. Grading: S/F grading. Corequisite: Students must be enrolled in applied music lessons: MUSA 660, MUSA 661, MUSA 760 or MUSA 764

MUS 692B - Professional Reedmaking for Double Reed Instruments (Bassoon) Credits 1
Students will improve their basic knowledge of reed construction and learn to create a variety of typical reed styles from multiple designers. Students will also begin the process of creating a personal reed style, based on their equipment, embouchure, physicality, and sound preference. Grading: S/F grading. Corequisite: Students must be enrolled in applied music lessons: MUSA 660, MUSA 661, MUSA 760 or MUSA 764

MUS 697 - Music Culminating Experience Credits 1
Culminating experience for M.Ed. music students. Includes a selection of faculty approved options such as a comprehensive examination, professional manuscript or presentation, eportfolio project, or other equitable curricular experiences.

MUS 698 - Recital-Master’s Level Credits 2
Presentation of a full recital. Formerly: MUS 798A Notes: May be repeated for a maximum of twelve credits. Prerequisites: Consent of Advisory Committee. Corequisite: Concurrent enrollment in MUS 661.

MUS 699A - History/Literature Credits 1-6
HISTORY/LITERATURE Grading: Letter grade

MUS 699B - Theory/Composition Credits 1-6
THEORY/COMPOSITION Grading: Letter grade

MUS 699C - Music Education Credits 1-6
MUSIC EDUCATION Grading: Letter grade

MUS 705 - Techniques of the Romantic Period Credits 3
Analytical and written studies covering compositional practices of the nineteenth and early twentieth centuries. Prerequisites: Satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 604.

MUS 706 - Twentieth-Century Techniques Credits 3
Analytical and written studies covering compositional practices from Impressionism to the present day. Prerequisites: Satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 604.

MUS 707 - Analysis in Relation to Performance Credits 3
A study of Schenkerian analysis and its application to the problems of performance. Prerequisites: Satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 604.

MUS 708 - Aspects of Musical Style Credits 3
Identification and study of the theoretical aspects of musical style through the examination of representative works from music literature. Prerequisites: Satisfactory score on the entrance exams, or successful completion of MUS 602 and MUS 604.

MUS 717 - Master Class in Singer’s Diction Credits 3
Phonetics and diction for singers in English, Italian, French, German, and Spanish. Formerly: MUS 724

MUS 718A - Graduate Seminar in Voice-German Credits 3
To study representative vocal repertoire from major song composers of German lieder through performance, discussion, reading, and listening. Study of repertoire encompasses origins and development of the genre, and interpretive concerns relating to text, diction and composers’ styles.

MUS 718B - Graduate Seminar in Voice-French Credits 3
To study representative vocal repertoire from major song composers of Voice-French through performance, discussion, reading, and listening. Study of repertoire encompasses origins and development of the genre, and interpretive concerns relating to text, diction and composers’ styles.

MUS 718C - Doctoral Seminar in Voice-Italian Credits 3
To study representative vocal repertoire from major song composers of Voice-Italian through performance, discussion, reading, and listening. Study of repertoire encompasses origins and development of the genre, and interpretive concerns relating to text, diction and composers’ styles.

MUS 718D - Graduate Seminar in Voice: American Song Credits 3
To study representative vocal repertoire from major song composers of American Song through performance, discussion, reading, and listening. Study of repertoire encompasses origins and development of the genre, and interpretive concerns relating to text, diction and composers’ styles.

MUS 719 - Teaching Music in Higher Education Credits 1
Examination of the preparation, skills, and ethics essential for securing and retaining a faculty position in music at the college or university level. Prerequisites: Doctoral standing.

MUS 720 - Instrumental Music Reading and Conducting Workshop Credits 1-3
Primarily for the purpose of reading large ensemble music with additional emphasis on conducting techniques and pedagogy. Orchestra.

MUS 721 - Large Ensemble Conducting and Literature Credits 3
LARGE ENSEMBLE CONDUCTING AND LITERATURE

MUS 722 - Instrumental Conducting Seminar Credits 3
Analysis of individual conducting problems with emphasis on orchestral and contemporary music. a) Orchestra b) Band.

MUS 723 - Advanced Choral Conducting Credits 3
Preparation of selected choral scores with emphasis on style and interpretation.

MUS 726 - Survey of Solo Repertoire Credits 3
Examination of solo literature available for performance in the following media. a) String. b) Woodwind. c) Brass. d) Percussion. e) Piano. f) Vocal. g) Guitar.

MUS 726A - Survey of Solo-String Credits 3
Examination of solo literature available for performance in the media of Solo-String.

MUS 726B - Survey of Solo-Woodwind Credits 3
Examination of solo literature available for performance in Woodwind.

MUS 726C - Survey of Solo-Brass Credits 3
Examination of solo literature available for performance in Solo-Brass.
MUS 726D - Survey of Solo-Percus Credits 3
Examination of solo literature available for performance in Solo-Percus.

MUS 726E - Survey of Solo-Piano Credits 3
Examination of solo literature available for performance in Solo-Piano.

MUS 726F - Survey of Solo-Vocal Credits 3
Examination of solo literature available for performance in Solo-Vocal.

MUS 726G - Survey of Solo-Guitar Credits 3
Examination of solo literature available for performance in Solo-Guitar.

MUS 727 - Survey of Ensemble Repertoire Credits 3
Examination of ensemble literature available for performance in the following media. a) String. b) Woodwind. c) Brass. d) Percussion. e) Piano. f) Choral. g) Band. h) Orchestra.

MUS 727A - Survey Ensemble-String Credits 3
Examination of ensemble literature available for performance in the媒体 of String.

MUS 727B - Survey of Survey Ensemble-Woodwind Credits 3
Examination of ensemble literature available for performance in the media of Woodwind.

MUS 727C - Survey of Ensemble-Brass Credits 3
Examination of ensemble literature available for performance in the media of Brass.

MUS 727D - Survey of Ensemble-Percus Credits 3
Examination of ensemble literature available for performance in the media of Percus.

MUS 727E - Survey of Ensemble-Piano Credits 3
Examination of ensemble literature available for performance in the media of Piano.

MUS 727F - Survey of Ensemble-Vocal Credits 3
Examination of ensemble literature available for performance in the media of Vocal.

MUS 727G - Survey of Ensemble-Band Credits 3
Examination of ensemble literature available for performance in the media of Band.

MUS 728 - Percussion Literature and Pedagogy Credits 3
Study of the origins and developments and the pedagogical techniques of standard percussion instruments, including general concert percussion instruments, keyboard percussion instruments, and drum set. Prerequisites: Graduate standing or consent of instructor.

MUS 742 - Orff Certification Level I Credits 3
Development of a sequential teaching curriculum utilizing chants, rhymes, poetry, singing, movement, instrumentation, and soprano recorder. Prerequisites: Undergraduate major in music education or consent of instructor.

MUS 743 - Orff Certification Level II Credits 3
Extension of a sequential teaching curriculum utilizing major and minor modes, additional harmonic techniques, complex rhythms, expanded elemental forms, and alto recorder. Prerequisites: Completion of Orff Level I.

MUS 744 - Orff Certification Level III Credits 3
Extension of a sequential teaching curriculum utilizing pentatonic and diatonic scales, lydian and mixolydian modes, descant, parallelism, irregular meters, changing meters, and off-beat accents. Prerequisites: Completion of Orff Level II.

MUS 746 - Master Class in Vocal Pedagogy Credits 3
Techniques for training and retraining voices. Study of the singer’s vocal production mechanism.

MUS 747 - Instrumental Music Pedagogy Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music. a) Piano. b) Brass. c) Woodwind. d) String. e) Guitar. f) Band. g) Orchestra.

MUS 747A - Instrumental Music-Piano Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Piano.

MUS 747B - Instrumental Music-Brass Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Brass.

MUS 747C - Instrumental Music-Woodwind Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Woodwind.

MUS 747D - Instrumental Music-String Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-String.

MUS 747E - Instrumental Music-Guitar Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Guitar.

MUS 747F - Instrumental Music-Band Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Band.

MUS 747G - Instrumental Music-Orchestra Credits 3
Rationale and procedures for developing a logical and appropriate course of study for individual instruction of instrumental music-Orchestra.

MUS 748 - Music Wellness: A Survival Guide for Teachers and Performers Credits 3
Focuses on past and current research related to health preservation and injury prevention among musicians. Vocal, auditory, mental and neuromusculoskeletal health will be investigated through the exploration of Body Mapping, as well as methods developed by Feldenkrais, Alexander, Taubman and others. Prerequisites: Graduate standing in Music.

MUS 761 - Graduate Applied Music for Performance Majors Credits 2 – 4

MUS 762 - Graduate Applied Music for Performance Majors Credits 2 – 4

MUS 768 - Graduate Applied Music for Non-Performance Majors Credits 2 – 4

MUS 770 - Seminar: Special Topics Credits 1 – 9
Explores a specific aspect of music. Notes: May be repeated to a maximum of six credits for master’s candidates and nine credits for doctoral candidates. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.
### MUS 773 - Research Seminar Credits 3
Study of research methodologies appropriate to the various disciplines of music history: biography and history, ethnomusicology, performance practice. Study of each methodology complemented by practical applications such as oral reports, research papers, or lecture-recitals. Prerequisites: MUS 690 or equivalent; Master’s degree in music.

### MUS 774 - Seminar in Music Theory Credits 3
Special topics in music theory including investigations of the underlying theoretical techniques of various composers' styles. Investigations will include use of rhythm, harmony, counterpoint, form, instrumentation, as well as other elements of musical style. Prerequisites: MUS 707, MUS 708 or equivalent; Master’s degree in music.

### MUS 775 - Artist Diploma Performance Seminar Credits 3
Examines issues of advanced instrumental and vocal performance practice, literature, and analysis. Outreach performances in the Clark County School District during the semester are required. Grading: Letter grade Prerequisites: Admission into the Artist Diploma program and consent of instructor.

### MUS 777 - Seminars in Percussion Credits 1 – 3
Candidate chooses three percussion topics to research at five-week intervals. Examines the topic as to its history, pedagogy, and literature. Formal presentation after each five-week period featuring the research with emphasis on specific area within the general topic. Prerequisites: Master’s degree in music and consent of instructor.

### MUS 780 - Document Credits 2-6
The document is limited in scope compared to a dissertation, demonstrates professional standards of scholarship, and contributes to existing knowledge within the field of study. Prerequisites: Successful completion of D.M.A qualifying exams, successful completion of all required D.M.A academic course work and consent of advisory committee.

### MUS 781 - Lecture-Recital Credits 3
Presentation of a lecture-recital demonstrating a synthesis of performance and scholarship. Topic is directly related to the topic of the student’s D.M.A document. Prerequisites: Successful completion of all required D.M.A academic course work and consent of advisory committee. Corequisite: Concurrent enrollment in MUS 764.

### MUS 783 - Jazz History Seminar Credits 3
In-depth study of jazz history with special focus on student research and presentations. Prerequisites: Graduate standing; undergraduate course work in jazz history or consent of instructor.

### MUS 785 - The Symphony Credits 3
Study of the origins and development of the symphony from 1750 to the present. Analysis of representative works from different style periods and emphasis on relationships of development of orchestra and formal development of genre. Prerequisites: Successful completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 789 - The Art Song Credits 3
Study of solo song from its beginning to the present day. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 792 - History of Opera Credits 3
Study of the historical development of opera from Monteverdi to the present with emphasis on representative works and composers. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 793 - Medieval and Renaissance Music Credits 3
Study of the evolution of European music from antiquity through the end of the sixteenth century. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 794 - Music of the Baroque Period Credits 3
Examination of the styles and forms of the seventeenth and early eighteenth centuries. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 795 - Classical and Early Nineteenth-Century Music Credits 3
Examination of the styles and forms of the period 1750 to 1825. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 796 - Music of the Romantic Period Credits 3
Examination of the styles and forms from 1815 through the early twentieth century. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 797 - Music of the Twentieth Century Credits 3
Examination of the styles and forms from Impressionism to the present day. Prerequisites: Satisfactory completion of MUS 690 or equivalent; and either a satisfactory score on applicable entrance exam(s), or successful completion of MUS 603.

### MUS 798 - Recital Credits 3
Presentation of a full recital at the doctoral level. Notes: May be repeated for a maximum of fifteen credits. Prerequisites: Consent of the advisory committee.

### MUS 798A - Recital-Doctoral Level Credits 3
Presentation of a full recital at the doctoral level. Notes: May be repeated to a maximum of fifteen credits. Grading: Letter grade Prerequisites: Consent of the examination committee.

### MUS 799A - Indep St-Hist Lit Credits 1 - 3
Investigation of specific aspect of music under supervision of a faculty member. Notes: May be repeated to a maximum of six credits for master’s candidates and nine credits for doctoral. Grading: Letter grade

### MUS 799B - Indep St-Thry Comp Credits 1 - 3
Investigation of specific aspect of music under supervision of a faculty member. Notes: May be repeated to a maximum of six credits for master’s candidates and nine credits for doctoral. Grading: Letter grade

### MUS 799C - Indep St-Mus Educ Credits 1 - 3
Investigation of specific aspect of music under supervision of a faculty member. Notes: May be repeated to a maximum of six credits for master’s candidates and nine credits for doctoral. Grading: Letter grade
MUSA 660B - Master’s Applied Study for Non-majors: Bassoon
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660C - Master’s Applied Study for Non-majors: Cello
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660D - Master’s Applied Study for Non-majors: Clarinet
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade

MUSA 660E - Master’s Applied Study for Non-majors: Flute
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660F - Master’s Applied Study for Non-majors: Horn
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660G - Master’s Applied Study for Non-majors: Oboe
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660I - Master’s Applied Study for Non-majors: Piano
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660J - Master’s Applied Study for Non-majors: Saxophone
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660K - Master’s Applied Study for Non-majors: String Bass
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.

MUSA 660L - Master’s Applied Study for Non-majors: Trombone
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade Prerequisites: Permission of instructor.
MUSA 660T - Master’s Applied Study for Non-majors: Organ
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 660U - Master’s Applied Study for Non-majors: Harp
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 660V - Master’s Applied Study for Non-majors: Private Theory Jazz
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 660W - Master’s Applied Study for Non-majors: Private Theory and Composition: Classical
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 660Y - Master’s Applied Study for Non-majors: Orchestra Conducting
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 660Z - Master’s Applied Study for Non-majors: Choral Conducting
Credits 1 - 3
Individual instruction for master’s students outside of degree requirements. Notes: May be repeated to a maximum of sixteen credits. Grading: Letter grade. Prerequisites: Permission of instructor

MUSA 661A - Applied Music for Master’s Students: Euphonium
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661AA - Applied Music for Master’s Students: Wind Conducting
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661B - Applied Music for Master’s Students: Bassoon
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661C - Applied Music for Master’s Students: Cello
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661D - Applied Music for Master’s Students: Clarinet
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade.

MUSA 661E - Applied Music for Master’s Students: Flute
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661F - Applied Music for Master’s Students: Horn
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661G - Applied Music for Master’s Students: Oboe
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661I - Applied Music for Master’s Students: Piano
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661J - Applied Music for Master’s Students: Saxophone
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661K - Applied Music for Master’s Students: String Bass
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade.

MUSA 661L - Applied Music for Master’s Students: Trombone
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661M - Applied Music for Master’s Students: Trumpet
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661N - Applied Music for Master’s Students: Tuba
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661O - Applied Music for Master’s Students: Viola
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661P - Applied Music for Master’s Students: Violin
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661Q - Applied Music for Master’s Students: Voice
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.

MUSA 661R - Applied Music for Master’s Students: Guitar
Credits 2
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade. Prerequisites: Successful audition and permission of instructor.
MUSA 661S - Applied Music for Master’s Students: Percussion  
Credits 2  
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade Prerequisites: Successful audition and permission of instructor.

MUSA 661T - Applied Music for Master’s Students: Organ  
Credits 2  
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade Prerequisites: Successful audition and permission of instructor.

MUSA 661U - Applied Music for Master’s Students: Harp  
Credits 2  
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade Prerequisites: Successful audition and permission of instructor.

MUSA 661V - Applied Music for Master’s Students: Private Theory  
Credits 2  
Individual instruction on instruments or voice. Audition and jury examination required. Private Theory. Grading: Letter grade Prerequisites: Successful audition and permission of instructor.

MUSA 661W - Applied Music for Master’s Students: Private Theory and Composition: Classical  
Credits 2  
Individual instruction on instruments or voice. Audition and jury examination required. Private Theory and Composition: Classical. Prerequisites: Successful audition and permission of instructor.

MUSA 661Y - Applied Music for Master’s Students: Orchestra Conducting  
Credits 2  
Individual instruction for master’s students. Notes: May be repeated to a maximum of eight credits. Grading: Letter grade Prerequisites: Successful audition and permission of instructor.

MUSA 760C - Applied Music for doctoral students: Cello  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760D - Applied Music for doctoral students: Clarinet  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760E - Applied Music for doctoral students: Flute  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760F - Applied Music for doctoral students: Horn  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760G - Applied Music for doctoral students: Oboe  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760H - Applied Music for doctoral students: Saxophone  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760I - Applied Music for doctoral students: String Bass  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Prerequisites: Permission of the Department chair.

MUSA 760J - Applied Music for doctoral students: Trombone  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760K - Applied Music for doctoral students: Trumpet  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to up six credits. Prerequisites: Permission of Department chair.

MUSA 760N - Applied Music for doctoral students: Tuba  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760O - Applied Music for doctoral students: Viola  
Credits 2 - 4  
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.
MUSA 760P - Applied Music for doctoral students: Violin Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760Q - Applied Music for doctoral students: Voice Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760R - Applied Music for doctoral students: Guitar Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760S - Applied Music for doctoral students: Percussion Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760T - Applied Music for doctoral students: Organ Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760U - Applied Music for doctoral students: Harp Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760V - Applied Music for doctoral students: Private Theory: Jazz Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits.

MUSA 760W - Applied Music for doctoral students: Private Theory and Composition Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits.

MUSA 760Y - Applied Music for doctoral students: Orchestra Conducting Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 760Z - Applied Music for doctoral students: Choral Conducting Credits 2 - 4
Individual instruction for doctoral students outside of degree requirements. Notes: May be repeated to a maximum of six credits. Prerequisites: Permission of the Department chair.

MUSA 764 - Applied Music for doctoral Students Credits 2 - 4
Individual instruction for doctoral students. a) Euphonium, b) Bassoon, c) Cello, d) Clarinet, e) Flute, f) Horn, g) Oboe, i) Piano, j) Saxophone, k) String Bass, l) Trombone, m) Trumpet, n) Tuba, o) Viola, p) Violin, q) Voice, r) Guitar, s) Percussion, t) Organ, u) Harp, aa) Wind Conducting, y) Orchestra Conducting, z) Choral Conducting. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764A - Applied Music for doctoral students: Euphonium Credits 2 - 4
Individual instruction for doctoral students in euphonium. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764AA - Applied Music for doctoral students: Wind Conducting Credits 2 - 4
Individual instructions for doctoral students in wind conducting. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764C - Applied Music for doctoral students: Cello Credits 2 - 4
Individual instructions for doctoral students in cello. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764D - Applied Music for doctoral students: Clarinet Credits 2 - 4
Individual instructions for doctoral students in clarinet. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764E - Applied Music for doctoral students: Flute Credits 2 - 4
Individual instructions for doctoral students in flute. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764F - Applied Music for doctoral students: Horn Credits 2 - 4
Individual instructions for doctoral students in horn. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764G - Applied Music for doctoral students: Oboe Credits 2 - 4
Individual instructions for doctoral students in oboe. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764I - Applied Music for doctoral students: Piano Credits 2 - 4
Individual instructions for doctoral students in piano. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764J - Applied Music for doctoral students: Saxophone Credits 2 - 4
Individual instructions for doctoral students in saxophone. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764K - Applied Music for doctoral students: String Bass Credits 2 - 4
Individual instructions for doctoral students in string bass. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764L - Applied Music for doctoral students: Trombone Credits 2 - 4
Individual instructions for doctoral students in trombone. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764M - Applied Music for doctoral students: Trumpet Credits 2 - 4
Individual instructions for doctoral students in trumpet. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.

MUSA 764N - Applied Music for doctoral students: Tuba Credits 2 - 4
Individual instructions for doctoral students in tuba. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Successful audition and permission of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 764P</td>
<td>Applied Music for doctoral students: Violin</td>
<td>2-4</td>
<td>Individual instructions for doctoral students in violin. Notes: May be repeated to a maximum of sixteen credits.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Prerequisites: Successful audition and permission of instructor.</td>
</tr>
<tr>
<td>MUSA 603</td>
<td>Study and performance of sacred and secular choral music for female voices. Required participation in scheduled performances. Formerly: MUSE 605 Notes: This course is crosslisted with MUSE 405. Credit at the 500-level requires additional work.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSA 507</td>
<td>Master Chorale</td>
<td>1</td>
<td>Mixed choir for music majors, non-majors, and community members which focuses upon a cappella repertoire as well as major works with orchestra. Required participation in scheduled performances. Notes: This course is crosslisted with MUSE 406. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 506</td>
<td>Varsity Men's Glee Club</td>
<td>1</td>
<td>Study and performance of sacred and secular choral music for male voices. Required participation in scheduled performances. Formerly: MUSE 606 Notes: This course is crosslisted with MUSE 406. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 505</td>
<td>Women's Chorus</td>
<td>1</td>
<td>Concert choir that performs sacred and secular choral music of many styles, including a cappella literature. Required participation in scheduled performances. Formerly: MUSE 608 Notes: This course is crosslisted with MUSE 408. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 504</td>
<td>Opera Workshop</td>
<td>1</td>
<td>Laboratory course devoted to the performance of operatic excerpts and short operas. Formerly: MUSE 604 Notes: This course is crosslisted with MUSE 404. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 503</td>
<td>Chamber</td>
<td>1</td>
<td>Advanced chamber ensemble with emphasis on a cappella literature of all periods. Required participation in scheduled performances. Formerly: MUSE 603 Notes: This course is crosslisted with MUSE 403. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 602</td>
<td>Symphonic Winds</td>
<td>1</td>
<td>Open to music and select non-music majors who successfully audition at the end of the fall semester. Performs standard wind band literature with an emphasis upon practical pedagogical foundations. Required participation in scheduled performances for various events on and off campus. Formerly: MUSE 620 Notes: This course is crosslisted with MUSE 420. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 516</td>
<td>Pep Band</td>
<td>1</td>
<td>Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at basketball games. Notes: This course is crosslisted with MUSE 413. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 515</td>
<td>Marching Band</td>
<td>1</td>
<td>Experience in large instrumental ensembles. Required participation in scheduled appearances for various events on and off campus. Designed primarily to perform at football games. Notes: This course is crosslisted with MUSE 415. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 518</td>
<td>Community Concert Band</td>
<td>1</td>
<td>Open to all university students with previous band experience. Required participation in scheduled appearances for various events on and off campus. Formerly: MUSE 618 Notes: This course is crosslisted with MUSE 418. Credit at the 500-level requires additional work.</td>
</tr>
<tr>
<td>MUSA 519</td>
<td>Brass Band</td>
<td>1</td>
<td>Ensemble designed to rehearse and concertize literature composed/transcribed for large brass ensemble and percussion. Required participation in scheduled appearances for various events on and off campus. Notes: May be repeated for credit. Grading: Letter grade. Prerequisites: Successful audition or instructor consent.</td>
</tr>
</tbody>
</table>
MUSE 521 - Symphony Orchestra  Credits 1
Premier university ensemble which rehearses and performs orchestral repertoire from the early Baroque to the present day. Participants selected by audition and the instructor’s consent. All selected participants expected to be available for all rehearsals (including occasional evening and dress rehearsals) and performances. Notes: This course is crosslisted with MUSE 421. Credit at the 500-level requires additional work. Prerequisites: Successful audition required.

MUSE 522 - Chamber Orchestra  Credits 1 credit each
Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day. Formerly: MUSE 622 Notes: This course is crosslisted with MUSE 422. Credit at the 500-level requires additional work.

MUSE 531 - Jazz Ensemble  Credits 1
Experience in large ensemble performances in the jazz idiom. Required participation in scheduled appearances both on and off campus, including festivals and out-of-town tours. Open to university students by audition only. Formerly: MUSE 631 Notes: This course is crosslisted with MUSE 431. Credit at the 500-level requires additional work. Prerequisites: By audition only.

MUSE 533 - Jazz Combo  Credits 1
Jazz Combo experience including the study of appropriate repertoire. Preparation for performances will be done in weekly scheduled combo rehearsals. In addition, each combo will perform two additional concerts, so that a minimum of three performances is required of each combo during the semester. Formerly: MUSE 633 Notes: This course is crosslisted with MUSE 433. Credit at the 500-level requires additional work. May be repeated to a maximum of eight credits. Prerequisites: Successful audition.

MUSE 534 - Jazz Guitar Ensemble  Credits 1
Jazz Guitar Ensemble. Exposes guitar students to a broad spectrum of musical styles, exercises their reading skills, and spectrum of musical styles, exercises their reading skills, and introduces them to the art of improvisational soloing. Experience the camaraderie of playing in an ensemble and the opportunity to exchange information and ideas. Formerly: MUSE 634 Notes: This course is crosslisted with MUSE 434. Credit at the 5000-level requires additional work. Prerequisites: Successful audition

MUSE 535 - Jazz Vocal Ensemble  Credits 1
Jazz Vocal Ensemble. Exposes the students to performance with emphasis on essential stylistic interpretations associated with the jazz vocal repertoire. A rhythm section will be provided. Formerly: MUSE 635 Notes: This course is crosslisted with MUSE 435. Credit at the 500-level requires additional work.

MUSE 536 - Contemporary Jazz Ensemble  Credits 1
Rehearsals with performance opportunities in contemporary jazz styles. Students will explore relevant jazz literature and are encouraged to compose original jazz music. Performances may take place on and off campus. Formerly: MUSE 636 Notes: This course is crosslisted with MUSE 436. Credit at the 500-level requires additional work.

MUSE 537 - Jazz Latin Ensemble  Credits 1
Exposes the students to performance with emphasis on essential stylistic interpretations associated with Latin jazz repertoire. Prerequisites: Successful audition.

MUSE 541 - Woodwind Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 641 Notes: This course is crosslisted with MUSE 441. Credit at the 500-level requires additional work.

MUSE 543 - Flute Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 643 Notes: This course is crosslisted with MUSE 443. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 544 - Clarinet Choir  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 644 Notes: This course is crosslisted with MUSE 444. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 546 - Brass Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 646 Notes: This course is crosslisted with MUSE 446. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 551 - String Chamber Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 651 Notes: This course is crosslisted with MUSE 451. Credit at the 500-level requires additional work.

MUSE 553 - Guitar Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 653 Notes: This course is crosslisted with MUSE 453. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 561 - Percussion Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 661 Notes: This course is crosslisted with MUSE 461. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 562 - Marimba Band  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 662 Notes: This course is crosslisted with MUSE 462. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 565 - Steel Drum Band  Credits 1
The UNLV Steel Band performs music of many genres predominantly the music indigenous to Jamaica and Trinidad. Students will develop the ability and skills to play a variety of steel pans, percussion instruments and drum set. Formerly: MUSE 665 Notes: This course is crosslisted with MUSE 465. Credit at the 500-level requires additional work.

MUSE 566 - Hand Drum Ensemble  Credits 1
Art of playing a variety of hand drums from around the world. Students exposed to authentic patterns, techniques and the general drum circle experience. Beginning and advanced ensembles accommodate the needs of all participants. Notes: May be repeated to a maximum of 10 credits.

MUSE 571 - Piano Ensemble  Credits 1
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 671 Notes: This course is crosslisted with MUSE 471. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 572 - Accompanying  Credits 1
Develops skills needed in vocal and instrumental accompanying. Fulfills 1 credit of ensemble requirement for piano majors. Formerly: MUSE 672 Notes: This course is crosslisted with MUSE 472. Credit at the 500-level requires additional work. Prerequisites: Intermediate piano skills or consent of instructor.

MUSE 577 - Orff Ensemble  Credits 1
Analysis of the compositional techniques of Carl Orff and Gunild Keetman through active participation and playing in ensembles comprised of voice, body percussion, tuned and non-tuned percussion and recorder. Notes: This course is crosslisted with MUSE 377. Credit at the 500-level requires additional work.
MUSE 580 - Opera Production  
Credits 1  
Involvement as a performer or production assistant in an opera/operetta production. Formerly: MUSE 680 Notes: This course is crosslisted with MUSE 480. Credit at the 500-level requires additional work. Prerequisites: Successful audition.

MUSE 590 - Special Ensemble  
Credits 1  
Students rehearse and perform chamber music for various instrumental combinations. Performances may take place on and off campus. Formerly: MUSE 690 Notes: This course is crosslisted with MUSE 490. Credit at the 500-level requires additional work. Prerequisites: Audition and instructor consent required.

MUSE 594 - Collegium  
Credits 1  
Study, performance, and researching of early and rarely performed music of historical importance, including new and unperformed works. Performances prepared for both university and public presentation. Open to qualified personnel by audition and consent of instructor. The Collegium determines its own procedural policies. (A) Madrigal singers (B) Early Music Consort. Formerly: MUSE 694 Notes: This course is crosslisted with MUSE 494. Credit at the 500-level requires additional work. Prerequisites: Audition and consent of instructor.

MUSE 595 - Chamber Players  
Credits 1  
Teaching and performance of contemporary music, with special emphasis on the historic approach to the many styles that have developed from early twentieth century to the present time. Also involves the learning and proper execution of various new notational styles. Formerly: MUSE 695 Notes: This course is crosslisted with MUSE 495. Credit at the 500-level requires additional work.

MUSE 619 - Brass Band  
Credits 1  
Ensemble designed to rehearse and concertize literature composed/ transcribed for large brass ensemble and percussion. Required participation in scheduled appearances for various events on and off campus. Notes: Credit at the 500 level normally requires additional work. Prerequisites: Consent of instructor.

MUSE 622 - Chamber Orchestra  
Credits 1  
Small orchestral ensemble with an emphasis on developing chamber music skills and rehearsal techniques. Repertoire ranges from the early Baroque to the present day. May be repeated for a maximum of eight credits. Notes: May be repeated to a maximum of four credits. This course is crosslisted with MUSE 422. Credit at the 600-level requires additional work. Grading: Letter grade

MUSE 694B - Collegium: Early Music Consort  
Credits 1  
Study, performance, and researching of early and rarely performed music of historical importance, including new and unperformed works. Performances prepared for both university and public presentation. Open to qualified personnel by audition and consent of instructor. The Collegium determines its own procedural policies. Early Music Consort. Notes: This course is crosslisted with MUSE 494B. Credit at the 600-level requires additional work. Grading: Letter grade

MUS 178D - Graduate Seminar in Voice: American Song  
Credits 3  
To study representative vocal repertoire from major song composers of American song, through performance, discussion, reading, and listening. Study of repertoire in national area. Encompasses origins and development of the genre, and interpretive concerns relating to text, diction and composers' styles.

MUS 799D - Indep St-Pedagogy & Literature  
Credits 1 - 3  
Investigation of specific aspect of music under supervision of a faculty member. Notes: May be repeated to a maximum of six credits for master's candidates and nine credits for doctoral. Grading: Letter grade

Theatre

The Department of Theatre provides cultural enrichment for the university and community through the university theatre season.

Norma Saldivar, Chair  
Nate Bynum, Graduate Coordinator

Theatre Faculty

Chair  
Saldivar, Norma

Graduate Coordinator  
Bynum, Joe Nathan - Full Graduate Faculty Professor; B.S., Bowie State College; MFA, Southern Illinois University. Rebel since 1999.

Graduate Faculty  
Aldridge, Joe - Full Graduate Faculty Professor; B.A., Texas Tech University; M.A., University of Nevada, Las Vegas. Rebel since 1989.

Bynum, Joe Nathan - Full Graduate Faculty Professor; B.S., Bowie State College; MFA, Southern Illinois University. Rebel since 1999.

Cornell, Rayme - Full Graduate Faculty Assistant Professor; B.A., University of Nevada, Las Vegas; MFA, University of Missouri, Kansas City. Rebel since 2007.

Cross, Lezlie - Full Graduate Faculty Assistant Professor; Ph.D., University of Washington. Rebel since 2014.

Frayer, Brackley - Full Graduate Faculty Professor; B.A., New England College; MFA, Yale School of Drama. Rebel since 1995.

Gilyard, Clarence - Full Graduate Faculty Associate Professor; B.A., California State University, Dominguez Hills; MFA, Southern Methodist University. Rebel since 2006.

Hubbard, Philip J. - Full Graduate Faculty Professor; B.A., University of California, Riverside; MFA, University of Missouri. Rebel since 1999.

Koep, Jeffrey - Full Graduate Faculty Professor, College of Fine Arts; B.A., Moorhead State University; M.A., Bowling Green State University; Ph.D., Washington State University. Rebel since 1989.

Lugering, Michael - Full Graduate Faculty Professor; B.S., Florida State University; MFA, University of Utah. Rebel since 1991.

McDonough, Ann - Full Graduate Faculty Professor; B.A., College of St. Catherine; M.A., Ph.D., University of Minnesota. Rebel since 1990.

Ryerson, Judith A. - Full Graduate Faculty Associate Professor; B.F.A., West Virginia University, MFA, University of Utah. Rebel since 2005.

Smallwood, Brian - Full Graduate Faculty Assistant Professor; MFA, Yale School of Drama. Rebel since 2014.

Sumpter, Shannon - Full Graduate Faculty Associate Professor; B.F.A., Adelphi University; MFA, Yale School of Drama. Rebel since 1999.

Tylo, Michael - Full Graduate Faculty Adjunct Faculty; B.F.A., MFA, Wayne State University. Rebel since 2006.

Williams, Dana Moran - Full Graduate Faculty B.A., Whitman College, MFA, New York University. Rebel since 2009.

Professors Emeriti  

Burgan, Robert N. Emeritus Professor; B.A., University of Nevada, Las Vegas, MFA, Ohio University. UNLV Emeritus 1972.

Crawford, Jerry L. Emeritus Professor; B.F.A., Drake University; M.A., Stanford University; Ph.D., University of Iowa. UNLV Émerits 1962-1994.

Harris, Paul C. Emeritus Professor; B.A., University of Colorado; M.A., Ph.D., Stanford University. UNLV Emeritus 1959-1989.
Master of Arts - Theatre

Plan Description
Theatre department’s Master of Arts program is designed to deepen student’s knowledge and understanding of the theatre. Focus is on developing strong research skills culminating in completion of a thesis and reading list. A minimum of 31 semester hours of credit (12 are electives) approved by student’s advisor and student’s committee are required.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students seeking an M.A. degree are admitted for matriculation in the fall or spring semester of the academic year. In addition to the general requirements for admission to the Graduate College, the following department application materials must be uploaded into the online application:

1. Transcripts from all postsecondary institutions attended, showing an undergraduate degree in theatre and the date awarded. (An acceptable alternative undergraduate major coupled with satisfactory practical experience in theatre may be deemed equivalent to an undergraduate major in theatre.)

2. A written statement (500 words or less) of the applicant’s purpose in pursuing graduate study.

3. A sample research paper or research statement to demonstrate research and writing ability.

4. Two letters of recommendation sent by former instructors, employers, or other professionals who can evaluate the applicant’s potential to complete graduate study.

Note: A writing sample and/or a personal interview may also be requested by the department’s Graduate Coordinator.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 31

Course Requirements

Required Courses – Credits: 9

- THTR 681 - Theatre History I
- THTR 682 - Theatre History II

Elective Courses – Credits: 12
Complete 12 credits of advisor-approved graduate-level elective courses.

Thesis – Credits: 6
- THTR 798 - Thesis

Degree Requirements
1. Completion of a minimum of 31 credit hours with a minimum GPA of 3.00.

2. A reading list will be given to each student upon entering the program. It contains major works in theatre history, performance theory, and dramatic criticism and play texts. It is expected that M.A. students will have read everything on the list and be prepared to answer questions of comprehension as part of their final examination.

3. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

4. A thesis topic is proposed by the student and approved by the examination committee. The M.A. thesis should be an original contribution of knowledge about a suitable dramatic or theatrical subject, no less than fifty pages in length. In matters of form and style, the student should follow the procedures set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual. A minimum of six thesis credits is required in the degree program.

5. Thesis credits should be taken over the course of at least two semesters with a minimum of two credit hours in the student’s final semester of study.

6. Students enrolled in the M.A. program will take a written diagnostic examination at the beginning of their first semester. Additionally, M.A. candidates will take a written comprehensive examination one week prior to their oral examination. The first half of the oral examination will be focused on defense of thesis; the second half will be based upon the Graduate Reading List, the curricular content represented in the student’s individual course of study, and the results of their comprehensive examination.
Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation from both degrees up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Fine Arts - Theatre

Plan Description

The Master of Fine Arts is a three-year program offering advanced tracks in Design/Technology, Performance, and Stage Management. Actors, designers, stage managers, and technicians receive comprehensive and specialized training in preparation for careers in the professional theatre and the broader entertainment industry. While deeply committed to the individual theatre artist, the program fosters and encourages an integrated and collaborative approach to theatre. Graduate students are provided opportunities through the department’s Nevada Conservatory Theatre to work alongside national and international theatre professionals in all disciplines. Courses in related areas of study such as entertainment engineering and design, dance, music, film and/or other disciplines approved by track advisors are encouraged for graduate students to meet the ever expanding expectations of the entertainment industry.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degrees Directory.

Learning outcomes for specific subplan tracks can be found below:

- Master of Fine Arts - Theatre; Concentration in Design/Technology
- Master of Fine Arts - Theatre; Concentration in Directing
- Master of Fine Arts - Theatre; Concentration in Performance
- Master of Fine Arts - Theatre; Concentration in Stage Management

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to the general requirements for admission to the Graduate College, the following department application materials must be uploaded into the online application:

1. Transcripts from all postsecondary institutions attended, showing an undergraduate degree in theatre and the date awarded. (An acceptable alternative undergraduate major coupled with satisfactory practical experience in theatre may be deemed equivalent to an undergraduate major in theatre.) M.F.A. candidates deemed to have deficiencies in their training may be required to take specific remedial course work. Students with deficiencies in theatre history will be required to take THTR 681 and THTR 682 (Theater History I and II). Remedial course work may not be counted toward the degree requirements.

2. A written statement (500 words or less) of the applicant’s purpose in pursuing graduate study.

3. Two letters of recommendation sent by former instructors, employers, or other professionals who can evaluate the applicant’s potential to complete graduate study.

Design/Technology Track

In addition to general materials requested by the Department of Theatre, students must submit a portfolio for consideration by the Design/Technology Faculty and Staff. It should outline their creative process as well as catalogue their creative ideas and experience. Applicants are strongly encouraged to visit the campus for an onsite interview.

Performance Track

In addition to general materials requested by the Department of Theatre (see above), students must audition either in person or through submission of a video (audition videos cannot be returned). The audition should contain the following:

1. Two contrasting selections, one of which must be classical (pre-18th Century) and in verse. The total audition should not exceed four minutes in length.

2. A song selected from a Broadway musical not to exceed one minute in length. If the audition is in person, the song should be performed a cappella as no accompaniment will be provided. Video submissions may include accompaniment.

The M.F.A. in Performance Track admits a new class every three years.

Stage Management Track

In addition to general materials requested by the Department of Theatre (see above), submit several pages from a sample prompt script (cannot be returned). An interview with Stage Management faculty will be scheduled after application materials have been received.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

See Subplan Requirements below.

Subplan 1: Design/Technology Track
Subplan 2: Performance Track
Subplan 3: Stage Management Track

Subplan 1 Requirements: Design/Technology Track
Total Credits Required: 60

Required Courses - Credits: 48

Scholarly Studies - Credits: 9
  Complete the following course, or other advisor-approved courses.
  - THTR 702 - Graduate Seminar
  Complete 6 credits from the following courses.
  - THTR 661 - Play Structure and Analysis
  - THTR 701 - Research in Theatre and Drama
  - THTR 719 - Dramaturgy

Emphasis Specific Studies - Credits: 39
All Graduate Design and Technology emphases include 24 units of graduate studio specific to the selected area. These are sequential with increasing levels of rigor. Studio courses include production assignments in various aspects of design and technology. In addition, each Emphasis includes required courses that further study and enhance skills in the area.

Costume Design Emphasis
  - THTR 741 - Costume Design Studio I
  - THTR 742 - Costume Design Studio II
  - THTR 743 - Costume Design Studio III
    THTR 610 - Life Drawing for Stage and Screen
  - THTR 601 - Special Topics: Advanced Costume Design II
  - THTR 797 - Creative Project

Lighting Design Emphasis
  - THTR 745 - Lighting Design Studio I
  - THTR 746 - Lighting Design Studio II
  - THTR 747 - Lighting Design Studio III

Choose 6 credits from the following courses:
  - THTR 606A - Computer Drafting & Rendering: AutoCAD
  - THTR 606B - Computer Drafting & Rendering: VectorWorks
  - THTR 606C - Computer Drafting & Rendering: Digital Rendering
  - THTR 638 - Production Management
  - THTR 797 - Creative Project

Technical Direction Emphasis
  - THTR 732 - Technical Direction Studio I
  - THTR 733 - Technical Direction Studio II
  - THTR 734 - Technical Direction Studio III

Choose 6 credits from the following courses:
  - THTR 606A - Computer Drafting & Rendering: AutoCAD
  - THTR 606B - Computer Drafting & Rendering: VectorWorks
  - THTR 606C - Computer Drafting & Rendering: Digital Rendering
  - THTR 638 - Production Management
  - THTR 797 - Creative Project

Elective Courses - Credits: 12
Each emphasis offers a list of suggested Elective courses related to the emphasis or that enhance liberal arts studies. Recommended areas of study may include Art, Art History, Architecture, Dance, Engineering, English, Film, History, Hospitality, Languages, Literature, Management, Safety, Stage Technology, Structures, Television, Journalism, or other courses with Advisor’s approval.

Subplan 2 Requirements: Performance Track
Total Credits Required: 60

Required Courses - Credits: 54

Scholarly Studies – Credits: 9
Complete the following course, or other advisor-approved courses.
  - THTR 702 - Graduate Seminar
  Complete 6 credits from the following courses.
  - THTR 661 - Play Structure and Analysis
  - THTR 701 - Research in Theatre and Drama
  - THTR 719 - Dramaturgy
Acting Course – Credits: 9
Complete 9 credits of the following course, or other advisor-approved courses.
· THTR 771 - Acting Studio

Scene Study Course – Credits: 9
Complete 9 credits of the following course, or other advisor-approved courses.
· THTR 773 - Scene Study

Voice and Movement Course – Credits: 9
Complete 9 credits of the following course, or other advisor-approved courses.
· THTR 775 - Sound and Movement Studio

Movement Course – Credits: 6
Complete 6 credits of the following course, or other advisor-approved courses.
· THTR 777 - Movement for the Actor

Speech Course – Credits: 6
Complete 6 credits of the following course, or other advisor-approved courses.
· THTR 779 - Speech for the Actor

Audition Course – Credits: 3
Complete 3 credits of following course, or another advisor-approved course.
· THTR 763 - Audition Technique

Dialect Course – Credits: 3
Complete 3 credits of the following course, or another advisor-approved course.
· THTR 764 - Accents and Dialects for the Actor

Elective Courses – Credits: 6
A list of suggested Elective courses related to the area or that enhance liberal arts studies will be provided. Recommended areas of study may include Art, Art History, Dance, Film, History, Literature, Music or other courses with Advisor’s approval.

Subplan 3 Requirements: Stage Management Track
Total Credits Required: 60

Required Courses - Credits: 48

Scholarly Studies – Credits: 9
Complete the following course, or other advisor-approved courses.
· THTR 702 - Graduate Seminar
  Complete 6 credits from the following courses.
· THTR 661 - Play Structure and Analysis

· THTR 701 - Research in Theatre and Drama
· THTR 719 - Dramaturgy

Stage Management Studio – Credits: 20
Studio courses include production assignments that enhance practical skills.
Complete 8 credits of the following course, or other advisor-approved courses.
· THTR 736 - Stage Management Studio I

Complete 12 credits of the following course, or other advisor-approved courses.
· THTR 737 - Stage Management Studio II

Management Studies – Credits: 9
Complete the following courses, or other advisor-approved courses.
· THTR 636 - Rehearsal Management
· THTR 637 - Theatre Management
· THTR 638 - Production Management

Entertainment and Fine Art Law – Credits: 6
Complete the following courses, or other advisor-approved courses.
· THTR 621A - Entertainment & Fine Art Law I
· THTR 621B - Entertainment & Fine Art Law II

Creative Project – Credits: 4
Complete the following course, or other advisor-approved courses.
· THTR 797 - Creative Project

Elective Courses – Credits: 12
A list of suggested Elective courses related to the area or that enhance liberal arts studies will be provided. Recommended areas of study include dramatic literature, communications, hospitality, film or other theatre courses as approved by advisor.

Plan Degree Requirements

1. READING LIST A reading list will be given to each student upon acceptance to the program. This reading list will focus on studies in both general theatre and the student’s track or emphasis. The list may include works in: theatre history, performance theory, period design and production history, dramatic criticism and dramatic literature. It is expected that the student will read all materials on the list and be prepared to answer questions of comprehension as part of the final defense/examination.

2. PLACEMENT EVALUATION All incoming graduate students will complete a placement evaluation to determine individual skill level in theatre history, dramatic literature, theories of performance and/or
production, and basic core comprehension for the track or emphasis. Students needing remedial intervention will be required to take courses that address academic readiness, skill acquisition, and learning progress.

3. RETENTION AND PROGRESSION The candidacy of all first-year M.F.A. students is provisional. At the end of the first semester in the program, every student will be reviewed by Faculty in the specific track. If a student’s performance is not satisfactory, the student will be given a formal warning of dismissal and placed on academic probation. The student will be presented with probationary conditions for advancement that must be met by the end of the second semester of residency. Upon completion of the first year of study, the student will be formally reviewed. If academic and artistic progress is deemed satisfactory, the student will advance. At this time, the candidate will form an Advisory Committee comprised of four graduate faculty, three selected from the Department of Theatre and one from another department who serves as the Graduate College representative. If, at the second semester review, the Advisor, Faculty of the track, and the Graduate Coordinator determine that the student has not met the probationary conditions, there may be a recommendation for dismissal or separation from the program.

4. REGULAR ASSESSMENT Graduate students will be provided milestones to meet in each semester of study. Progress assessments of each M.F.A. candidate will be made by the Faculty of the track and shared with the student at the conclusion of each academic semester.

5. PRODUCTION REQUIREMENT Graduate students will participate in productions in all semesters as part of curricular requirements. Students are assigned roles in production by the Faculty with emphasis on advancing and challenging the skills of each candidate and developing their collaborative process. Performance graduate students must audition for every show and participate in film production assignments as cast. Design/Technology and Stage Management students will complete design assignments, managerial positions or stewardships in a variety of venues, styles, and areas. It is expected that students will accumulate a variety of diverse experiences in production / performance that add to and refine their resume and portfolio, preparing them for the rigors of professional theatre, film, and related fields. All designated assignments are considered extensions of studio and classroom learning progress and skill acquisition.

6. CAUSES for PROBATION In accordance with the Graduate School, the following are cause for probation and/or dismissal from the program:
   
   o failure to earn a minimum degree GPA of 3.0;
   o unsatisfactory grades (including more than two incompletes, grades C or less, or repeated withdrawals from courses required for the degree program);

   o failure to complete six (6) graduate credits per rolling three semesters (including summer) toward their program in order to meet UNLV enrollment requirements;
   o failure to consult with their Advisor when requested;
   o failure to establish a graduate Advisory Committee when requested;
   o failure to consult with graduate Advisory Committee when requested;
   o failure to develop and submit an official, approved degree program;
   o failure to establish the groundwork for an acceptable thesis or dissertation, and successfully defend the prospectus;
   o failure of required comprehensive and/or qualifying examinations;
   o failure to meet a department milestone or to pass the culminating experience; and
   o failure to successfully defend a thesis or dissertation. If placed on probation, the student will be presented with probationary conditions and a timeline to accomplish requirements to avoid termination from the program.

7. TERMINATION OF CANDIDACY Not meeting probationary conditions will mean termination. Continuation in the M.F.A. program is determined by the Faculty Advisor, Faculty of the track, and the Graduate Coordinator.

Plan Graduation Requirements

1. CREDIT REQUIREMENTS Candidate must complete a minimum of 60 credit hours with a minimum GPA of 3.00.

2. FINAL EXAMINATION All M.F.A. candidates will complete a final defense / examination reviewed by the student’s Advisory Committee. A candidate who successfully completes a final defense/examination will submit all appropriate paperwork to the Graduate College for graduation. A candidate who is unsuccessful in their final defense/examination will be presented conditions by the Advisory Committee to meet satisfactory expectations for completion of the defense process. If the candidate is unable to meet the conditions for completion, the student will be terminated from the program and will not proceed to graduation.

3. APPLY FOR GRADUATION The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing degree requirements.
THTR 601 - Special Topics: Advanced Costume Design II
Credits 3
Advanced exploration of costume design and construction related topics that may include fashion history, design for TV and film, design for twenty first century entertainments, and commercial costume applications. Notes: May be repeated to a maximum of nine credits.

THTR 604 - Advanced Theatre Technology
Credits 3
Theory and practice of advanced scenery construction techniques that may include stage properties design and construction, theatrical rigging, and advanced woodworking. Grading: Letter grade Prerequisites: Admission into the MFA Theatre program

THTR 605 - Career Development and Portfolio Preparation for Theatre
Credits 3
The art and organization of becoming a theater professional. Topics include professional ethics, collaborative communication, branding and self marketing, visual and oral communication networking, and portfolio development through the development of marketing and portfolio materials. Notes: This course is crosslisted with THTR 454. Credit at the 600-level requires additional work. Prerequisites: Admission into the MFA Theatre program

THTR 606A - Computer Drafting & Rendering: AutoCAD
Credits 3
A step by step process of building an understanding of a standard drafting system called AutoCAD, from learning the industry language as well as the processes of drafting. Notes: This course is crosslisted with THTR 406A. Credit at the 600-level requires additional work. Grading: Letter grade Prerequisites: Admission into the MFA Theatre program

THTR 606B - Computer Drafting & Rendering: VectorWorks
Credits 3
A step by step process of building an understanding of a standard drafting system called VectorWorks, from learning the industry language as well as the processes of drafting. Notes: This course is crosslisted with THTR 406B. Credit at the 600-level requires additional work. Grading: Letter grade Prerequisites: Admission into the MFA Theatre program

THTR 606C - Computer Drafting & Rendering: Digital Rendering
Credits 3
Exploration of various computer software programs to effectively communicate research, design, and conceptual ideas as the foundation of collaborative communication as a production designer. Notes: This course is crosslisted with THTR 406C. Credit at the 600-level requires additional work. Grading: Letter grade Prerequisites: Admission into the MFA Theatre program

THTR 609 - Scene Painting Studio
Credits 3
Through study, practical application and experimentation, and research, study will be in the tools and techniques used by scenic artists to complete a scenic design. Notes: This course is crosslisted with THTR 409. Credit at the 600-level requires additional work. Grading: Letter grade Prerequisites: Admission into the MFA Theatre program

THTR 621A - Entertainment & Fine Art Law I
Credits 3
Protection of works created by entertainers and artists, including American and European copyright protection and the unique state and federal statutory rights possessed by performers and artists such as the rights of publicity and issues of resale royalties. Special consideration to film and music industries. Notes: This course is crosslisted with THTR 421A. Credit at the 600-level requires additional work. Prerequisites: Admission into the MFA Theatre program

THTR 621B - Entertainment & Fine Art Law II
Credits 3
Unique legal issues in the fields of live stage performance, theatre, music, television and film, the art gallery and museum relationships, including legal and social censorship, First Amendment protection, state and federal obscenity statutes, and contract problems. Notes: This course is crosslisted with THTR 421B. Credit at the 600-level requires additional work.

THTR 636 - Rehearsal Management
Credits 3
Examination of the Unions encountered in theatrical venues to develop a familiarity with the rehearsal and work-related rules encountered.

THTR 637 - Theatre Management
Credits 3
Focuses on the relationship between the art and business of theatre, exploring “front of house” positions such as general managers, business managers, box office managers, publicity and development directors. Formerly: THTR 739 Prerequisites: Graduate standing.

THTR 638 - Production Management
Credits 3
Examines the responsibilities of production managers. Focuses on organizational skills, dissemination of information and collaborative relationship that a production manager must foster with design, technical, and performance staff. Formerly: THTR 740 Prerequisites: Graduate standing.

THTR 654 - Directing I
Credits 3
Introduction to the basic principles and techniques of play direction. Notes: This course is crosslisted with THTR 454. Credit at the 600-level requires additional work.

THTR 661 - Play Structure and Analysis
Credits 3
Study in script analysis including form, style, literal and metaphorical content and themes. Notes: This course is crosslisted with THTR 461. Credit at the 600-level requires additional work.

THTR 675 - Musical Theatre Literature
Credits 3
Study of selected plays of the American and European musical theatre. Notes: This course is crosslisted with THTR 475. Credit at the 600-level requires additional work.

THTR 681 - Theatre History I
Credits 3
Study of theatre within the political and social context of Western Europe from Classical Greece to the mid-nineteenth century. Representative plays read and discussed. Notes: This course is crosslisted with THTR 481. Credit at the 600-level requires additional work.

THTR 682 - Theatre History II
Credits 3
Study of the evolution of theatre within the cultural, political, and social context of Europe, United States, Africa, and South America from the beginnings of realism to the present. Representative plays discussed. Notes: This course is crosslisted with THTR 482. Credit at the 600-level requires additional work.

THTR 683 - Research in Period Styles and Aesthetics for Stage and Screen
Credits 3
Exploration of the global, cultural, and social history of the styles and trends in architecture, fashion and decorative arts as they are researched and applied to stage and screen design. Notes: This course is crosslisted with THTR 483. Credit at the 600-level requires additional work.

THTR 701 - Research in Theatre and Drama
Credits 3
Graduate research methodology, research reporting and research/creative thesis document preparation.

THTR 702 - Graduate Seminar
Credits 3
Interdisciplinary course in history, theory, criticism, dramaturgy, aesthetics and technique. Through selected readings, lectures, discussions and collaborative projects, actors, directors, designers, playwrights, stage managers and theatre scholars explore the essential theatre. Topics rotate each semester. Course required for all M.A. and M.F.A. Students. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

THTR 703 - Collaborative Process
Credits 3
Explores the working relationships between designer, director, and technician in the process of play production. Notes: May be repeated for a maximum of six credits.

THTR 707 - Form, Style and Structure
Credits 3
Study of the theatre text, classical to modern, explicating form, style and structure.
THTR 711 - Playwrights Master Class Credits 3
Advanced writing class for second and third year playwrights. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Consent of instructor.

THTR 713 - Playwriting: Credits 3
The One-Act Play Practical course in the writing of shorter dramatic forms, focusing on craft, structure and technique. Prerequisites: Consent of instructor.

THTR 714 - Playwriting: Credits 3
The Full Length Play Practical course in the writing of long dramatic forms, focusing on craft, structure and technique. Prerequisites: Consent of instructor.

THTR 716 - Playwrights Laboratory Credits 3
Explores the collaborative role of the playwright during the rehearsal process of a new play with actors, directors, and dramaturg. Prerequisites: Consent of instructor.

THTR 717 - Playwrights Tutorial Credits 1 – 4
Meetings with individual members of the faculty and with guest artists for discussion of successive drafts of work in progress. Prerequisites: Consent of instructor.

THTR 719 - Dramaturgy Credits 3
Overview of the history, form and function of dramaturgy. Provides active experience in dramaturgy, on a variety of drama from the classic play to new works. Collaborative relationships among director, playwright, and dramaturg explored. Prerequisites: Graduate standing.

THTR 720 - Playwrights Workshop Credits 1 – 5
Weekly meeting of all playwrights for reading and discussion of works in progress. Prerequisites: Consent of instructor.

THTR 725 - Directing Studio Credits 3
Laboratory course in the technique and aesthetics of directing. Topics rotate each semester and may include history of directing, rehearsal techniques, script analysis, visualization, and collaboration. Specific laboratory assignments may include apprenticeships, dramaturgy, stage management as well as directing short, full-length musical and original playscripts. Notes: May be repeated to a maximum of eighteen credits. Prerequisites: Consent of instructor.

THTR 726 - Problems in Direction Credits 3
“The following course was not found in the supplied content but, were listed in program requirements. Please review and provide us, if possible, with the correct information.”

THTR 727 - Scene Design Studio I Credits 3
Focuses on training the first-year graduate student in scene design. Emphasizes the essential skills of drafting, researching historical and visual sources, aesthetic judgment, concept development and production collaboration. Student required to assist faculty and advanced designers on a minimum of three productions for the year. Prerequisites: Consent of instructor.

THTR 728 - Scene Design Studio II Credits 3 – 6
Focuses on training the second-year graduate student in scene design. Develops skills in rendering, model making, and refines skills through assignment as designer on a minimum of two department productions for the year. Notes: May be repeated to a maximum of nine credits. Prerequisites: THTR 727

THTR 729 - Scene Design Studio II Credits 3 – 6
Focuses on the graduate student’s last year of development. Provides the student with the opportunity to demonstrate the mastery of the professionalism needed to practice the art of scene design. Student required to design a minimum of two productions for the year. Notes: May be repeated to a maximum of nine credits. Prerequisites: THTR 728

THTR 732 - Technical Direction Studio I Credits 3 – 6
Trains the first-year graduate student in technical direction. Emphasizes the essentials skills of drafting, CAD, researching historical and visual sources, aesthetic judgement, concept development and production collaboration. Student required to assist faculty and advanced technical direction students on a minimum of two productions for the year. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Consent of instructor.

THTR 733 - Technical Direction Studio II Credits 3 – 6
Trains the second-year graduate student in technical direction. Develops skills in rigging safety, welding, sound, construction techniques, construction methods, estimating, and ordering materials. Student required to assist faculty and advanced technical direction students on a minimum of three productions for the academic year. Notes: May be repeated to a maximum of twelve credits. Prerequisites: THTR 732

THTR 734 - Technical Direction Studio III Credits 3 – 6
Focuses on the graduate student’s last year of development. Provides student with the opportunity to demonstrate the mastering of the professionalism needed to practice the art of technical direction. Student required to serve as Technical Director for a minimum of two productions for the year. Notes: May be repeated to a maximum of twelve credits. Prerequisites: THTR 733

THTR 735 - Sound Design: Theory and Practice Credits 3
Art of sound design developed through lectures, weekly projects, demonstrations, and production involvement.

THTR 736 - Stage Management Studio I Credits 1 – 4
Focuses on the principles and techniques of stage management with emphasis on setting up the prompt book, dissemination of information, and the relationship with directors, actors, and staff. Also examines contracts that the stage manager works under with an emphasis on work-related rules. Stage management assignment. Notes: May be repeated to a maximum of eight credits. Prerequisites: Consent of instructor.

THTR 737 - Stage Management Studio II Credits 1 – 4
In addition to lab assignments, rotating topics may include: Production, show management, entertainment on the road, performance artist representation, career preparation. Guest speakers address working in the professional theatre. Notes: May be repeated to a maximum of 16 credits. Prerequisites: Graduate standing, THTR 736

THTR 741 - Costume Design Studio I Credits 3 – 6
Focuses on training the first-year graduate student in costume design. Emphasizes the essential skills of play analysis, historic period research, aesthetic judgment, costume rendering techniques and production collaboration. Student assists faculty and advanced graduate designers on a minimum of three productions for the year. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.

THTR 742 - Costume Design Studio II Credits 3 – 6
Focuses on training the second-year graduate student in costume design. Emphasizes the refinement of design skills, such as plot layouts, the costume plate, and fabric. Assignment of a minimum of two department productions for the year, demonstrating practical application of the knowledge gained. Notes: May be repeated to a maximum of nine credits. Prerequisites: THTR 741

THTR 743 - Costume Design Studio III Credits 3 – 6
Focuses on the graduate student’s last year of development in his/her area of specialization. In addition to further refinements in theory, technique and style, program culminates with the student demonstrating the mastery of costume design through a minimum of two fully realized assignments for the year for a substantial department production. Notes: May be repeated to a maximum of nine credits. Prerequisites: THTR 742

THTR 745 - Lighting Design Studio I Credits 3 – 6
Focuses on training the first-year graduate student in lighting design. Develops skills in concept development research, production collaboration, design, drafting and execution of the light plot for theatre and dance. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 746</td>
<td>Lighting Design Studio II</td>
<td>3 – 6</td>
<td>Focuses on training the second-year graduate student in lighting design. Further develops skills in concept development research, production collaboration, design, drafting and execution of the light plot for theatre and dance. Development through assignment on a minimum of two department productions for the year. Notes: Student required to assist faculty and advanced designers on a minimum of three productions for the year. May be repeated to a maximum of nine credits. Prerequisites: THTR 745</td>
</tr>
<tr>
<td>THTR 747</td>
<td>Lighting Design Studio III</td>
<td>3 – 6</td>
<td>Focuses on training the third-year graduate student in lighting design. Final year provides the student with the opportunity to demonstrate the mastering of the skills and responsibilities of a lighting designer. Student required to design a minimum of two productions for the year. Notes: May be repeated to a maximum of nine credits. Prerequisites: THTR 746</td>
</tr>
<tr>
<td>THTR 748</td>
<td>Seminar in Theatre Architecture and Apparatus</td>
<td>3</td>
<td>In-depth study of the architectural instrument, the theatre building. Covers the structural forms, grounding them in their historical timeline. The team-taught seminar provides a basic process for accessing and using the theatre building of the present and planning the theatre building of tomorrow. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>THTR 763</td>
<td>Audition Technique</td>
<td>2</td>
<td>Preparation of a theatre audition, both musical and nonmusical. Study of theatrical unions, contracts, agents, and the legal and professional aspects of professional acting. Notes: Instructor approval.</td>
</tr>
<tr>
<td>THTR 764</td>
<td>Accents and Dialects for the Actor</td>
<td>1-3</td>
<td>Study and practice of dialects and accents for the stage. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>THTR 771</td>
<td>Acting Studio</td>
<td>1-4</td>
<td>Laboratory course in the practice and process of the technique, craft, and aesthetics of acting. Through a series of basic exercises and improvisational studies specialized skills in action, subtext, environment, sensory awareness, characterization, language, and script analysis are developed in the context of a variety of theatrical styles which are rotated each semester. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>THTR 773</td>
<td>Scene Study</td>
<td>1-4</td>
<td>Repertory course for actors and directors. Rotating scene material selected each semester from the canon of theatrical literature and may include contemporary drama, classic American realism, Shakespeare, Greek and Roman drama, Comedy of Manners, musical theatre, original scripts, Modernism, the avant garde, television &amp; film, and performance. Notes: May be repeated to a maximum of sixteen credits. Prerequisites: Graduate status, consent of instructor.</td>
</tr>
<tr>
<td>THTR 775</td>
<td>Sound and Movement Studio</td>
<td>1-4</td>
<td>Integrated voice and body course designed specifically for the actor to increase strength, flexibility, range, control, placement, coordination, and efficiency. Exercises and improvisational studies are designed specifically to address the psycho-physical aspects of dramatic action and character transformation. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Instructor approval.</td>
</tr>
<tr>
<td>THTR 777</td>
<td>Movement for the Actor</td>
<td>1-3</td>
<td>Rotating course in various movement disciplines which have practical application to the art and craft of acting. Topics may include the Alexander Technique, the Feldenkrais Method, Pilates techniques, Suzuki, yoga, tai chi, weight training, aerobics, stage combat, mime, clown, circus techniques, improvisation, and movement for period style. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>THTR 778</td>
<td>Problems in Makeup</td>
<td>3</td>
<td>Study and practical experience in the art of makeup. Notes: May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>THTR 779</td>
<td>Speech for the Actor</td>
<td>1-4</td>
<td>Technical course in articulation and pronunciation for the actor. Vocal anatomy and physiology, the International Phonetic Alphabet, phrasing, linkage, syllabication, stress, and vowel length explored for clarity, efficiency, coordination, dexterity, and control in the formation of the sounds of spoken English. Notes: May be repeated to a maximum of eight credits. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>THTR 781</td>
<td>Dance for the Actor</td>
<td>1</td>
<td>Laboratory course in the technique and aesthetics of dance. Different dance forms of styles rotated each semester may include ballet, modern, jazz, tap, ballroom, and musical theatre dance.</td>
</tr>
<tr>
<td>THTR 791</td>
<td>Commerce of Theatre</td>
<td>2</td>
<td>Study of theatre contracts, unions, legal, management, and practical business/market concerns.</td>
</tr>
<tr>
<td>THTR 793</td>
<td>Special Topics in Theatre</td>
<td>0 – 3</td>
<td>Selected topics announced including master classes. Notes: May be repeated to a maximum of 10 credits.</td>
</tr>
<tr>
<td>THTR 795</td>
<td>Supervised Individual Study</td>
<td>1 – 3</td>
<td>Consultation course consisting of individual student effort under guidance of instructor with Students request assignment to specific areas or issues on the basis of interest and preparation. Prior to registration, the student must secure consent in writing from the instructor directing the study. May be repeated to a maximum of nine credits. Notes: Must be taken for the maximum four credit hours, but these hours should normally be spread over at least two terms. A student may not register for this course until the project supervisor has been designated and the project tentatively established. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>THTR 796</td>
<td>Internship</td>
<td>1 – 12</td>
<td>Internship at regional centers of theatre activity. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Subject to M.F.A. program requirements.</td>
</tr>
<tr>
<td>THTR 797</td>
<td>Creative Project</td>
<td>1 – 12</td>
<td>Planning and execution of a major creative proposal as a thesis production and project. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Subject to M.F.A. program requirements.</td>
</tr>
<tr>
<td>THTR 798</td>
<td>Thesis</td>
<td>1 – 6</td>
<td>Must be taken for a maximum of six hours, but these hours should be spread over at least two terms. A student may not register for this course until the thesis director has been designated and the topic tentatively established. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only. Prerequisites: Graduate standing.</td>
</tr>
</tbody>
</table>
Division of Health Sciences

The health issues facing our local, state, and national governments are complex, and the solutions will require research, innovation, and collaboration from individuals and agencies representing the full spectrum of health and wellness.

UNLV’s Division of Health Sciences — along with other health science-related programs in the Nevada System of Higher Education — is addressing today’s pressing needs and making tomorrow’s discoveries.

The division is comprised of the schools of Dental Medicine, Nursing, Public Health, and Integrated Health Sciences. Guided by a mission that demands UNLV serves its community, the division is using research, education, training, and service to form unique public and private partnerships. These partnerships are helping provide quality health care to the underserved, educating future professionals, and exploring ways to improve the health and well-being of our citizens. Taken together, UNLV is helping build a foundation for a healthier and more vibrant Nevada.

School of Integrated Health Sciences
School of Public Health
School of Dental Medicine
School of Medicine
School of Nursing

Doctor of Philosophy - Interdisciplinary Health Sciences

Plan Description

This Ph.D. in IHS will provide students from different disciplines an opportunity to learn how to approach complex healthcare problems by using the expertise from their own as well as other disciplines. This goal will be achieved through completion of a common core of courses identified to provide a strong research foundation along with the ability to communicate this research to a broad audience of healthcare scientists and professionals. These core courses will be the foundation of the Ph.D.; however, students will be able to individualize their program of study with appropriate specialized coursework as well as independent research experiences. Strengths of the faculty in IHS focus around the following: 1) Biomechanics, 2) Exercise Physiology and Nutrition Sciences, 3) Health Physics, 4) Motor Control/Learning, and 5) Rehabilitation Sciences.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students will be admitted into the program by the program director and the IHS admissions committee.

The minimum requirements of the Ph.D. in IHS are:

1. An overall undergraduate/graduate GPA of 3.25 or higher
2. Greater than the 50th average percentile on the quantitative, verbal, and analytic portions of the GRE (taken within the last 5 years)
3. Three letters of recommendation
4. Interview with two core faculty members
5. A curriculum vitae
6. A personal statement
7. If the applicant is from a country where English is not an official language, then the applicant must demonstrate English proficiency by scoring 80 or higher on the Test of English as a Foreign Language, by scoring 7.0 or higher on the International English Language Testing System, by earning a score of greater than the 70th percentile on the GRE-verbal, or by earning a baccalaureate or higher at a regionally accredited institution in the U.S. or in a university where English is the language of instruction.

The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Admission Requirements – Biomechanics, Exercise Physiology and Nutrition Sciences, and Motor Control/
Learning Focus

1. Graduated with a Master’s degree from a regionally accredited institution in the field of kinesiology/exercise science, biology, chemistry, computer science, engineering, psychology or other related field.

Admission Requirements - Rehabilitation Sciences Focus

1. Have graduated from an accredited rehabilitation clinical sciences profession (e.g., physical therapy, occupational therapy, speech therapy, athletic training) at either the master’s or first-professional clinical doctoral level.

2. If the applicant has a professional Bachelor’s degree only, then 30 additional credits of degree-consistent, graduate-level coursework (determined by the sub-plan committee) will be required.

Admission Requirements - Health Physics Focus

1. Graduated with a Master’s degree from a regionally accredited institution in the field of health physics, physics, chemistry, engineering or other related field.

2. Applicants with Bachelor degrees may be admitted to the program but are required to take an additional 30 credits of elective, degree-consistent, graduate level coursework (determined by the Health Physics Graduate Committee).

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

*Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.*

Plan Requirements

Total Credits Required: 60

Interdisciplinary Research Core Courses – 15 Credits

- HSC 704 - Selected Applications in Statistics 2
- HSC 710 - Seminar
- HSC 703 - Interdisciplinary Grant Writing for Health Sciences

OR

- HSC 706 - Health Science Writing and Communication
- HSC 700 - Selected Application of Statistical Techniques I
- HSC 702 - Translational Research Design
- HSC 705 - Clinical Trial Design And Analysis

Seminar Elective Courses – 30 Credits

Complete 30 credits of advisor approved graduate-level courses:

- Minimum of 6 credits of graduate level interdisciplinary courses outside of the student’s primary focus area
- Minimum of 9 credits of 700-level content/focus area courses
- Up to 15 credits of
  - HSC 788 - Independent Study in Interdisciplinary Health Sciences
  - HSC 787 - Special Problems in Interdisciplinary Health Sciences
  - HSC 790 – Guided Research

Research/Dissertation Experience – 15 Credits

- HSC 789 - Dissertation Prospectus
- HSC 799 - Doctoral Dissertation

Degree Requirements

1. Students must complete 30 credits in the interdisciplinary health sciences core (15 of which are dissertation-related credits) and must complete 30 elective credits as defined above. The minimum credit total in the program is 60 credits.

2. Students must complete the degree with a cumulative GPA ≥3.0 and graduation must occur within 6 years for students enrolling with master’s degrees and 8 years for students enrolling with bachelor’s degrees.

3. Grades below B (not B-) will not be acceptable. If the grade was received in a core class, then the student must retake the class. If a core class was not satisfactorily passed on two attempts, the student will be dismissed from the program. If the grade was in an elective class, then the class can be retaken or replaced with another elective class.

4. Students will complete a comprehensive examination which will consist of a thorough literature review, an interdisciplinary grant application, and a comprehensive oral defense. If a student fails any portion of the comprehensive examination (literature review, grant, oral) they will be able to retake it again after a minimum of three months. If they fail a second time they will be separated from the program.

5. Students will also be required to complete a prospectus prior to dissertation in a focused research area. The dissertation committee will have an interdisciplinary element in that the Chair and two of the committee members will be faculty with Interdisciplinary Health Sciences Graduate Faculty status. The fourth committee must be from outside the IHS Graduate Faculty and serves as the Graduate College Representative. Additional committee members may be added as appropriate.
6. Students will complete at least one national/international presentation as a platform or a poster from research generated during their Ph.D. program.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the Doctoral portions of the program.

2. The student must adhere to the following dissertation requirements:

   1. Dissertation Format

      1. In consultation with their advisor, the student has two options for the structure and associated content of the dissertation. These will be termed “traditional” and “multiple-projects”.

      2. All dissertations will include a title page, acknowledgements, table of contents, references, and appendices as appropriate.

      3. Minimum content and suggested structure for the specific categories of dissertations are outlined below.

         1. Traditional Dissertation

            1. This form of the dissertation is organized around one particular experiment. Specifically this should be an in-depth examination of a specific question/topic involving a single, comprehensive experiment.

            2. The structure of this document will consist of a minimum of an abstract, bibliography and five chapters to include:

               § Introduction (background, statement of the problem(s), purpose of the study, hypotheses, limitations, delimitations)

               § Review of the Literature

               § Methods

               § Results

               § Discussion/Conclusion/Recommendations

               Optional appendices, figures and tables are also to be included. The oral defense will be that of this single research experiment.

         1. Multiple-Projects Dissertation

            1. The form of the dissertation may be either 1) a linear progression of at least three topically developing research deliverables, or 2) a series of a minimum of three experiments designed around a theme or topical area of inquiry.

            2. The exact structure of the document may vary based upon choice of linear or circular design. It is imperative that each experiment is of adequate scientific merit to stand on its own as an independent publication.

            3. Packaging of the multiple-projects dissertation should include:

               § Introduction (background, statement of the problem(s), hypotheses, limitations, delimitations)

               § Experiment 1: Written in the format required by the target journal, which is typically Introduction, Methods, Results and Discussion/Summary/Conclusions.

               § Experiment 2: Written in the format required by the target journal which is typically Introduction, Methods, Results and Discussion/Summary/Conclusions

               § Experiment 3: Written in the format required by the target journal which is typically Introduction, Methods, Results and Discussion/Summary/Conclusions

               § Each “Experimental Section” should be preceded with an introduction to the project and/or bridge section that leads from one experiment to the next.

               § Summary / Future Directions

               This example suggests three experiments; however additional experiments may be proposed and completed. The number of projects to be completed will be proposed by
the student with final approval given from the doctoral advisor and dissertation committee. Optional appendices, figures and tables are also to be included. The oral defense will include the entire document, inclusive of all experiments conducted.

1. Outcomes include:

§ **Pass:** student is recommended to the Graduate College for granting of the Ph.D. degree

§ **Fail:** student advised of status and that the oral defense will be repeated to provide an opportunity to correct errors, clarify nebulous areas and/or expand on superficial presentation of information or data.

§ At least four weeks (but no more than 8 weeks) must pass before scheduling a re-take of the oral defense. If a student fails the oral defense a second time, they will be separated from the program.

1. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

2. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

---

### School of Integrated Health Sciences

The School of Integrated Health Sciences provides undergraduate and graduate education to students interested in studying one of the many different health sciences curriculums. The curricula are designed to prepare students to readily assume health-related employment opportunities or continue on with further graduate or professional studies. Educational experiences include rigorous classroom instruction, laboratory/clinical practice (on and off campus sites), research opportunities with faculty, and professional mentoring. It is a goal of the School of Integrated Health Sciences faculty to produce graduate students who are professionally competent, thoroughly capable of critical thinking, and highly sought after by employers. Graduates will exhibit high ethical professional standards, be devoted to lifelong learning and be prepared to respond to local, regional or national level demands in their fields of study.

*Ronald T. Brown, Ph.D., Dean, School of Integrated Health Sciences*

### DPT 713 - Genomic and Regenerative Rehabilitation Concepts

**Credits: 3**

Current perspectives on the emerging impact of regenerative medicine and genomic technologies that have potential to drive progress in the prevention and treatment of acute and chronic condition resulting from injury, disease or aging.

### PTS 702 - Critical Appraisal and Synthesis of Research in Rehabilitation

**Credits: 3**

This course provides students with knowledge and skills to critically appraise and synthesize research in rehabilitation. Students will learn how to write answerable questions, search the literature, and critically analyze evidence for application. Students will critique special cases of evidence and psychometric properties of diagnostic tools and outcome measures.

### PTS 712 - Physiological Bases of Rehabilitation

**Credits: 3**

This course will provide an overview of the physiology underlying movement generation. Emphasis on the neuromuscular and musculoskeletal physiology components related to rehabilitation. Focus on tissue physiology of the neuromuscular and musculoskeletal systems, an applied approach and examination of physiological adaptations to exercise and its influence on a macro level.

### HPS 777 - Clinical Physics Research

**Credits: 2**

Clinical research under the direct supervision of clinical preceptors. Notes: May be repeated to a maximum of 4 credits. Grading: TDX grading only. Prerequisites: Consent of department.

### HSC 700 - Selected Application of Statistical Techniques I

**Credits: 3**

Explores descriptive and inferential statistical procedures utilized in studies reported in exercise science, health, physical education, and recreation. Same as: KIN 751  Grading: Letter grade

### HSC 701 - Interdisciplinary Team Science

**Credits: 3**

This course explains the basic components of team science and the types of problems appropriate for interdisciplinary teams. Included in the course are the core components of team science, assembling an interdisciplinary team, working effectively with interdisciplinary team members, and evaluating team performance. Same as: NURS 748  Grading: Letter grade

### HSC 702 - Translational Research Design

**Credits: 3**

Clinical and translational research concepts and design elements in the context of interdisciplinary health care with an emphasis on contemporary issues and best practice approaches.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 703</td>
<td>Interdisciplinary Grant Writing for Health Sciences</td>
<td>3</td>
<td>This course involves preparing and writing an interdisciplinary grant proposal for health sciences. Students from different health science disciplines will work together to develop an innovative and significant grant proposal. Prerequisites: Graduate-level research course that covers the research process (research problem, literature review, methods, and statistical/data analysis).</td>
</tr>
<tr>
<td>HSC 704</td>
<td>Selected Applications in Statistics 2</td>
<td>3</td>
<td>This course is designed to provide students with the statistical tools necessary for analyzing data from experimental designs such as those found in the Health Sciences and related disciplines. This course is intended to be taken following the introductory statistics course, KIN 751. Prerequisites: KIN 751.</td>
</tr>
<tr>
<td>HSC 705</td>
<td>Clinical Trial Design And Analysis</td>
<td>3</td>
<td>Comprehensive and in-depth review of the principles and methodologies utilized in designing and conducting clinical trials in health care research. Statistical principles specific to clinical trial design and data analyses will also be covered. Prerequisites: HSC 704</td>
</tr>
<tr>
<td>HSC 706</td>
<td>Health Science Writing and Communication</td>
<td>3</td>
<td>Learn and apply communication techniques for oral and poster presentations, scientific articles, white papers, and lay summaries. Same as: KIN 754. Grading: Letter grade Prerequisites: KIN 750 or Admission to the IHS program</td>
</tr>
<tr>
<td>HSC 710</td>
<td>Seminar</td>
<td>1</td>
<td>Preparation and presentation of seminars on topics of current interest in healthcare research. Notes: May be repeated to a maximum of three credits.</td>
</tr>
<tr>
<td>HSC 787</td>
<td>Special Problems in Interdisciplinary Health Sciences</td>
<td>1-6</td>
<td>Specialized instruction and/or research designed to develop depth in understanding a contemporary problem or issue in the health sciences. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only Prerequisites: Permission of instructor</td>
</tr>
<tr>
<td>HSC 788</td>
<td>Independent Study in Interdisciplinary Health Sciences</td>
<td>1-9</td>
<td>Independent study of a selected topic in Interdisciplinary Health Sciences. Notes: May be repeated to a maximum of nine credits. Grading: S/F grading only Prerequisites: Permission of instructor</td>
</tr>
<tr>
<td>HSC 789</td>
<td>Dissertation Prospectus</td>
<td>3</td>
<td>Review of salient literature, conduct appropriate research and complete writing required for the development and defense of the dissertation prospectus. Grading: S/F grading only Prerequisites: Permission of instructor</td>
</tr>
<tr>
<td>HSC 799</td>
<td>Doctoral Dissertation</td>
<td>1-12</td>
<td>Culminating research project(s) and writing toward completion of doctoral study and subsequent defense of work completed.</td>
</tr>
<tr>
<td>OCT 701</td>
<td>Advanced Clinical Practice in Occupational Therapy</td>
<td>3</td>
<td>Exploration of concepts in professional development competence by creating and examining professional development plans related to clinical practice, assessment, and level of competencies. Grading: Letter grade Prerequisites: Admission to the PP-OTD program.</td>
</tr>
<tr>
<td>OCT 702</td>
<td>Leadership and Advocacy in Occupational Therapy Practice</td>
<td>3</td>
<td>Reviews contemporary leadership theories including change theory associated with self-assessment, leadership, and advocacy efforts. Grading: Letter grade Prerequisites: Admission to the PP-OTD program.</td>
</tr>
<tr>
<td>OCT 703</td>
<td>Evidence-Based Practice in Occupational Therapy</td>
<td>3</td>
<td>Explores the principles of evidence-based practice, utilizing various methods to conduct systematic reviews. Focusses on analyzing evidence in order to improve clinical interventions in practice and applying best practices for teaching evidence-based coursework in occupational therapy education programs. Grading: Letter grade Prerequisites: OCT 701 and OCT 702</td>
</tr>
<tr>
<td>OCT 704</td>
<td>Teaching Adult Learners/Pedagogy</td>
<td>3</td>
<td>Adult learning theories, educational approaches and models utilized in educational settings in occupational therapy will be reviewed. The development of educational programs to meet accreditation standards will be studied and strategies will be presented and discussed. Grading: Letter grade Prerequisites: Successful completion of OCT 701 and OCT 702</td>
</tr>
<tr>
<td>OCT 705</td>
<td>Distance Education and Telehealth</td>
<td>3</td>
<td>Examination of the use of instructional technology strategies, principles of online learning, and best practices of instructional technology. Telemedicine/telehealth practice within occupational therapy will be explored, looking at ways this medium delivers healthcare to patients who are geographically separated from providers. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703 and OCT 704</td>
</tr>
<tr>
<td>OCT 706</td>
<td>Social Determinants of Health</td>
<td>3</td>
<td>Exploration of health social determinants and the accreditation standards that require academic programs to address them in occupational therapy curricula. Examines epidemiological factors that impact the public health and welfare of populations and identifies strategies for teaching in entry-level educational programs. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703 and OCT 704</td>
</tr>
<tr>
<td>OCT 707</td>
<td>Evidence Based Education</td>
<td>3</td>
<td>This field of inquiry focuses on finding, critiquing, and implementing the highest quality research evidence in educational practices. Research will be reviewed to explore teaching practices that can lead to optimal educational experiences, improve learning outcomes, and increase audience satisfaction. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705 and OCT 706</td>
</tr>
<tr>
<td>OCT 708</td>
<td>Issues in Higher Education and Healthcare</td>
<td>3</td>
<td>Discourse around current issues in higher education will be the focus along with a critical analysis of those issues. Issues and problems affecting the current U.S. healthcare system will also be discussed and analyzed. Potential ideas for solutions and future directions will be shared and debated. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705, OCT 706 and OCT 708</td>
</tr>
<tr>
<td>OCT 709</td>
<td>Occupational Therapy Capstone I</td>
<td>3</td>
<td>Knowledge and skills acquired during doctoral coursework will be integrated into a scholarly project designed by the student to meet his or her professional goals. A scholarly paper will be written that outlines the Capstone Project. Students will prepare and then defend their proposal before a committee. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705, OCT 706, OCT 707 and OCT 708</td>
</tr>
<tr>
<td>OCT 710</td>
<td>Program Development and Evaluation Program</td>
<td>3</td>
<td>The development, implementation, and evaluation of community health programs, assessment of academic programs and community health needs from a public health perspective. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705, OCT 706, OCT 707, OCT 708 and OCT 709</td>
</tr>
<tr>
<td>OCT 711</td>
<td>Capstone II</td>
<td>3</td>
<td>The capstone project process continues and is a course of knowledge synthesis and application rather than formal instruction, in which the action or program proposed during Capstone Project I will be carried out. A scholarly project will result that synthesizes what has been learned throughout the program and which leads to publication and presentation. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705, OCT 706, OCT 707, OCT 708, OCT 709 and OCT 710</td>
</tr>
<tr>
<td>OCT 712</td>
<td>Innovations in Occupational Therapy Practice</td>
<td>3</td>
<td>Innovative occupational therapy and emerging areas of practice. Unique practice niches will be developed in areas of education, policy, advocacy, clinical practice, management, or leadership. Grading: Letter grade Prerequisites: Successful completion of OCT 701, OCT 702, OCT 703, OCT 704, OCT 705, OCT 706, OCT 707, OCT 708, OCT 709 and OCT 710</td>
</tr>
</tbody>
</table>
Health Physics and Diagnostic Sciences

Many industries, medical facilities, and research laboratories demand professionals who understand the safe and effective use of radiation and radioactive materials. Health physics is the study of radiation protection, and the safe use of radioactive materials. Our M.S. and Doctor of Medical Physics (DMP) programs provide students with instruction and research opportunities focused in two career paths: medical physics, the effective use of radiation for medical imaging and therapy, and environmental health physics, radiation protection, the industrial applications of radiation and radioactive materials, and the behavior and evaluation of radiation in the environment. The Department of Health Physics faculty members look forward to working with prospective students in this challenging program of study.

Health physics is the profession dedicated to the protection of the individual, the population, and the environment from the potentially harmful effects of radiation while allowing society to benefit from medical applications of radiation and radioactive materials. It incorporates the principles and technical skills from many disciplines including physics, chemistry, biochemistry, biology, mathematics, and ecology. The wide spectra of knowledge required of both health and medical physicists make these professions both challenging and rewarding. The Master of Science (M.S.) in Health Physics is designed to prepare students in the fields of health physics and medical physics to administer public and private radiation health programs; investigate medical uses of radioactivity; measure and control radiation in the workplace and the environment; ensure compliance with radiation protection regulations; assist in the cleanup of radioactive and hazardous waste sites; evaluate worker, patient, and public radiation doses; and conduct research in radiation protection, medical imaging, and radiation therapy.

The Master of Science in Health Physics is divided into two sub-plans: environmental health physics and medical physics. The environmental health physics sub-plan is accredited by the Applied Science Accreditation Commission of ABET (http://abet.org). The medical physics sub-plan is accredited by the Commission on Accreditation of Medical Physics Educational Programs (CAMPEP).

For accreditation information, visit the Academic Program Accreditations page.

Steen Madsen, Ph.D., Chair & Graduate Coordinator

Health Physics and Diagnostic Sciences Faculty

Chair
Madsen, Steen - Full Graduate Faculty Professor; B.Sc., University of Toronto; M.Sc., Ph.D., McMaster University. Rebel since 1997.

Graduate Coordinator
Madsen, Steen - Full Graduate Faculty Professor; B.Sc., University of Toronto; M.Sc., Ph.D., McMaster University. Rebel since 1997.

Graduate Faculty
Cucinotta, Francis - Full Graduate Faculty Professor; B.A. Rutgers, Ph.D. Old Dominion University. Rebel since 2013.

Hirschberg, Henry - Associate Graduate Faculty B.E.E. City University New York; M.D., Ph.D., University of Oslo, Norway. Rebel since 2006.

Kuang, Yu - Full Graduate Faculty Assistant Professor; B.M.E., M.S., Zhejiang University; Ph.D., Case Western Reserve University. Rebel since 2012.

Meigooni, Ali S. - Associate Graduate Faculty B.S. Tehran University; M.S., Ph.D., Ohio University. Rebel since 2012.

Riland, Carson A. - Associate Graduate Faculty B.S. Bloomsburg University; M.S., Ph.D. Texas A&M University. Rebel since 1996.

Doctor of Medical Physics

Advanced Graduate Certificate in Medical Physics

Plan Description
The Certificate in Medical Physics is designed to provide individuals holding terminal degrees in physics or a closely related field with the didactic coursework required for eligibility to enter medical physics residency programs. This is a two-semester certificate offering courses in basic radiation sciences and clinical medical physics.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

Applications for admission must be completed through the Graduate College Grad Rebel Gateway online application system.

Applicants must:

1. Hold a terminal degree (Ph.D. or equivalent) in physics or a closely related field,
2. Have an overall GPA of 3.00 in graduate work,
3. Receive a composite score of 310 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE),
4. Successfully complete an anatomy and physiology course. Applicants not meeting the anatomy and physiology requirement may still be admitted to the...
program, however, this prerequisite deficiency must be completed during either the first or second semester of study.

5. All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 18

Course Requirements

Required Courses – Credits: 18

- HPS 602 - Radiation Detection
- HPS 703 - Radiation Interactions and Transport
- HPS 720 - Radiation Dosimetry
- HPS 730 - Advanced Radiation Biology
- HPS 740 - Medical Imaging Physics
- HPS 742 - Radiation Therapy Physics

Certificate Requirements

Certificate Requirements

1. Completion of a minimum of 18 credit hours with a minimum GPA of 3.00.
2. Students in the Certificate in Medical Physics must adhere to the Six-year Completion Rule.
3. No credit may be used in an advanced certification program for course work completed more than six calendar years immediately preceding the term in which all certificate requirements are completed.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Master of Science - Health Physics

This program (Environmental Option) is accredited by: ABET. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Master of Science (M.S.) – Health Physics is designed to prepare students in the field of health physics to administer public and private radiation health programs; investigate medical uses of radioactivity; measure and control radiation in the workplace and the environment; ensure compliance with radiation protection regulations; assist in the cleanup of radioactive and hazardous waste sites; evaluate worker, patient, and public radiation doses; and conduct research in radiation protection.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Complete the Graduate College online application for admission. Completed applications, official Graduate Record Examination (GRE) scores, one copy of official transcripts from all post-secondary institutions, and all other documents (i.e., recommendation provider information and statement of professional goals) should be uploaded into the online application system.

Students seeking admission to the graduate program in health physics must fulfill the following admission requirements:

1. Overall GPA of 3.00 (A=4.00 or equivalent) in undergraduate work. Applicants with a GPA below 3.00, but not less than 2.75, may be admitted as a graduate provisional student.

2. Successful completion (grade of C or better) of the following course work:
   a. Seven-semester credits in biology including an introductory modern biology course and one higher level course
   b. Ten-semester credits in chemistry or geology including a general chemistry sequence and one higher-level course
   c. Eight-semester credits in elementary calculus (mathematics through differential equations is recommended)
   d. Twelve semester credits in physics including a general physics sequence
   e. A course in computer programming (an additional course in numerical methods or scientific computing is recommended) Applicants not meeting a limited number (maximum of nine credit hours) of prerequisite requirements may still be admitted to the program. However, prerequisite requirements may still be admitted to the program. However, prerequisite deficiencies must be completed during the first year of study and prior to registering for Thesis or Professional Paper.

3. Completion of a baccalaureate degree in health physics, one of the basic sciences, or in a closely related scientific or engineering field. Applicants holding a degree in a non-related field may be given special consideration if they have completed all prerequisite course work.

4. Students seeking entry to the medical physics
specialization must have a strong foundation in physics and, as such, applicants are required to have either an undergraduate degree in physics or a degree in a related engineering or physical science discipline with course work equivalent to a minor in physics (includes at least three upper level undergraduate physics courses).

5. A score ranking in the 50th percentile or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE). Tests taken prior to August 2011 require a composite score of 1,000 or higher on the verbal and quantitative sections of the Graduate Record Exam (GRE).

6. Three letters of recommendation from former instructors or employers that speak to the applicant’s potential as a graduate student. Contact information for recommendation providers should be entered into the recommendation page of the online application. Recommenders will then upload their letters directly into the student’s online application.

7. A statement of approximately 300 words indicating the student’s professional goals and reason for seeking graduate education.

8. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Environmental Health Physics

Total Required Credits: 40

Course Requirements

Required Courses – Credits: 18

- HPS 602 - Radiation Detection
- HPS 603 - Radiation Physics and Instrumentation Laboratory
- HPS 701 - Applied Nuclear Physics
- HPS 703 - Radiation Interactions and Transport
- HPS 720 - Radiation Dosimetry
- HPS 730 - Advanced Radiation Biology

Seminar Course – Credits: 3

- HPS 611 - Health Physics Seminar

Core Courses – Credits: 10

- HPS 616 - Advanced Health Physics
- HPS 670 - Environmental Health Physics
- HPS 718 - Radiochemistry Laboratory
- HPS 719 - Introduction to Radioanalytical Chemistry

Elective Courses – Credits: 3

Complete 3 credits from the following list of courses, any graduate-level health physics (HPS) courses, or other advisor-approved graduate-level courses.

- HPS 750 - Radiation Risk Assessment
- HPS 760 - Environmental Restoration and Radioactive Waste Management

Culminating Experience – Credits: 6

Complete one of the following:

- HPS 797 - Thesis
- HPS 796 - Professional Paper

Plan Degree Requirements

1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

2. Receive a grade of B (3.00) or above in all core health physics courses. If less than a B is earned, the course may be repeated. The student must be in good standing to repeat a course, and any core course may be repeated only once.

3. Select a thesis advisor from the full graduate faculty in the program by the end of the student’s first semester in the program. Failure to select a thesis advisor may result in probation or eventual termination from the program.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Pass the comprehensive oral examination. The comprehensive oral exam will be taken by all students after completion of the second semester of enrollment in the program. The exam will be pass/fail. Students who fail the exam may re-take the exam prior to the start of their third semester of enrollment. Students who fail their second attempt will be separated from the program. Students may not defend their thesis prospectus or proceed with their professional paper until successful completion of the oral exam. The exam will be administered by the graduate faculty from Health Physics.

6. Continuously register for three credit hours of thesis or professional paper each semester while working on...
the thesis or professional paper until completion.

7. Credit by Challenge Examination: Graduate courses in the Health Physics program may not be challenged for credit.

8. Allotment of Credits: Students have a choice of catalog under which they wish to graduate
   1. The year of official matriculation, or
   2. The year of graduation
   3. Students are encouraged to meet the requirements of the current catalog.

9. A final oral examination will be held following completion of the thesis or professional paper resulting from a research project. The final examination must be held by the Graduate College deadline in the term in which the student plans to complete the degree requirements.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Medical Physics

Total Required Credits: 40

Course Requirements

Required Courses – Credits: 18
   • HPS 602 - Radiation Detection
   • HPS 603 - Radiation Physics and Instrumentation Laboratory
   • HPS 701 - Applied Nuclear Physics
   • HPS 703 - Radiation Interactions and Transport
   • HPS 720 - Radiation Dosimetry
   • HPS 730 - Advanced Radiation Biology

Seminar Course – Credits: 3
   • HPS 611 - Health Physics Seminar
   • HPS 792 - Ethics for Medical Physicists

Core Courses – Credits: 13
   • HPS 676 - Sectional Anatomy
   • HPS 740 - Medical Imaging Physics
   • HPS 742 - Radiation Therapy Physics
   • HPS 742L - Therapy Physics Clinical Rotation and Lab
   • HPS 795 - Independent Study

Culminating Experience – Credits: 6

Complete one of the following:
   • HPS 796 - Professional Paper
   • HPS 797 - Thesis

Plan Degree Requirements

1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

2. Receive a grade of B (3.00) or above in all core health physics courses. If less than a B is earned, the course may be repeated. The student must be in good standing to repeat a course, and any core course may be repeated only once.

3. Select a thesis advisor from the full graduate faculty in the program by the end of the student’s first semester in the program. Failure to select a thesis advisor may result in probation or eventual termination from the program.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Pass the comprehensive oral examination. The comprehensive oral exam will be taken by all students after completion of the second semester of enrollment in the program. The exam will be pass/fail. Students who fail the exam may re-take the exam prior to the start of their third semester of enrollment. Students who fail their second attempt will be separated from the program. Students may not defend their thesis prospectus or proceed with their professional paper until successful completion of the oral exam. The exam will be administered by the graduate faculty from Health Physics.

6. Continuously register for three credit hours of thesis or professional paper each semester while working on the thesis or professional paper until completion.

7. Credit by Challenge Examination: Graduate courses in the Health Physics program may not be challenged for credit.

8. Allotment of Credits: Students have a choice of catalog under which they wish to graduate
   1. The year of official matriculation, or
   2. The year of graduation
   3. Students are encouraged to meet the requirements of the current catalog.

9. A final oral examination will be held following completion of the thesis or professional paper resulting from a research project. The final examination must be held by the Graduate College deadline in the term in which the student plans to complete the degree requirements.
Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis or professional paper by the posted deadline. The thesis defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Doctor of Medical Physics

This program is accredited by: CAMPEP. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The doctor of medical physics degree is a 4-year entry-level professional program designed to provide individuals with appropriate baccalaureate degrees the knowledge and skills required to practice medical physics in a clinical setting. Upon receiving this degree, students will be eligible to sit for the licensure examinations in medical physics. The program of study consists of 80 credit hours of graduate course work divided into classroom, clinical and research activities. During the first 5 semesters in the program, students take courses emphasizing the fundamental principles of radiological sciences and medical physics. The last six semesters consist of clinical rotations in radiation oncology clinics and/or hospitals where students are involved with all aspects of clinical medical physics including dosimetry and treatment planning, external beam physics, brachytherapy, quality assurance and special procedures.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students seeking admission to the DMP program must fulfill the following admission requirements:

1. Overall GPA of 3.0/4.0 (B average) in undergraduate work. Applicants with a GPA below 3.0 but not less than 2.75 may be admitted as provisional students.

2. Bachelor’s Degree in Physics, Applied Physics, Physical Science, or Engineering (with an equivalent of a minor in physics) from an accredited college or university.

3. Applicants with a master’s degree from an accredited medical physics program who meet the entrance requirements may be considered for admission to the program. In addition, these applicants must have taken the American Board of Radiology (ABR) part 1 exam as a condition for admission to the program. These students will be required to take an additional 20 credits of electives (determined by the Health Physics Graduate faculty).

4. A score ranking in the 50th percentile or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE).

5. Three letters of recommendation from former instructors or employers that speak to the applicant’s potential as a graduate student. The individual writing the letter may use the form available from the Graduate College, which includes a release form for the student to sign.

6. A statement of approximately 300 words indicating the student’s professional goals and reason for seeking graduate education.

7. International applicants whose native language is not English must show competency in the English language before they can be admitted. A satisfactory score (minimum 550 on the written version or 213 on the computerized version) on the «Test of English as a Foreign Language» (TOEFL) or comparable evidence of competency in English must be submitted by students as part of their application.

8. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s Track

Subplan 2 Requirements: Post Master’s Track

Subplan 1 Requirements: Post-Bachelor’s Track

Total Credits Required: 80

Course Requirements

Fall Semester 1st Year Courses - Credits: 10

- HPS 676 - Sectional Anatomy
- HPS 701 - Applied Nuclear Physics
- HPS 730 - Advanced Radiation Biology
• HPS 611 - Health Physics Seminar

Spring Semester 1st Year Courses - Credits: 9
• HPS 703 - Radiation Interactions and Transport
• HPS 602 - Radiation Detection
• HPS 603 - Radiation Physics and Instrumentation Laboratory

Summer Semester 1st Year Courses - Credits: 6
• HPS 790 - Radiation Oncology Physics Clinical Internship

Fall Semester 2nd Year Courses - Credits: 7
• HPS 720 - Radiation Dosimetry
• HPS 742 - Radiation Therapy Physics
• HPS 611 - Health Physics Seminar

Spring Semester 2nd Year Courses - Credits: 8
• HPS 740 - Medical Imaging Physics
• HPS 742L - Therapy Physics Clinical Rotation and Lab
• HPS 611 - Health Physics Seminar
• HPS 792 - Ethics for Medical Physicists

Summer Semester 2nd Year Courses - Credits: 6
• HPS 770 - Radiation Therapy Physics: External Beam

Fall Semester 3rd Year Courses - Credits: 6
• HPS 771 - Dosimetric Aspects of Radiation Therapy I

Spring Semester 3rd Year Courses - Credits: 6
• HPS 772R - Radiation Therapy Physics: Brachytherapy
• HPS 773 - Radiation Protection, Radiation Safety and Quality Assurance

Summer Semester 3rd Year Courses - Credits: 6
• HPS 774 - Dosimetric Aspects of Radiation Therapy II

Fall Semester 4th Year Courses - Credits: 8
• HPS 775 - Clinical Medical Physics I
• HPS 777 - Clinical Physics Research

Spring Semester 4th Year Courses - Credits: 8
• HPS 776 - Clinical Medical Physics II: Special Procedures
• HPS 777 - Clinical Physics Research

Degree Requirements
1. Maintain a cumulative GPA of 3.0/4.0 or above each semester enrolled.
2. Receive a grade of B (3.0) or above (or satisfactory, where applicable) in all courses. If less than a B (or unsatisfactory) is earned, the course may be repeated. The student must be in good standing to repeat a course, and any course may be repeated only once.
3. Complete a minimum of six semester hours in each calendar year.
4. Students entering the program with a B.S. degree have the option of leaving the program with a masters degree after successful completion of all non-clinical coursework. These students are required to take an additional credits of professional paper (HPS 796) or thesis (HPS 797) in order to satisfy the research component of the masters degree.
5. A minimum of 80 credit hours is required for graduation from the DMP program (60 credits for students admitted with a masters degree).

Subplan 2 Requirements: Post-Master’s Track
Total Credits Required: 60

Course Requirements

Fall Semester 1st Year Courses - Credits: 10
10 Credits of Advisor Approved Electives.

Spring Semester 1st Year Courses - Credits: 10
10 Credits of Advisor Approved Electives.

Summer Semester 1st Year Courses - Credits: 6
• HPS 770 - Radiation Therapy Physics: External Beam

Fall Semester 2nd Year Courses - Credits: 6
• HPS 771 - Dosimetric Aspects of Radiation Therapy I

Spring Semester 2nd Year Courses - Credits: 6
• HPS 772R - Radiation Therapy Physics: Brachytherapy
• HPS 773 - Radiation Protection, Radiation Safety and Quality Assurance

Summer Semester 2nd Year Courses - Credits: 6
• HPS 774 - Dosimetric Aspects of Radiation Therapy II

Fall Semester 3rd Year Courses - Credits: 8
• HPS 775 - Clinical Medical Physics I
• HPS 777 - Clinical Physics Research

Spring Semester 3rd Year Courses - Credits: 8
• HPS 776 - Clinical Medical Physics II: Special Procedures
• HPS 777 - Clinical Physics Research

Degree Requirements
1. Maintain a cumulative GPA of 3.0/4.0 or above each semester enrolled.
2. Receive a grade of B (3.0) or above (or satisfactory, where applicable) in all courses. If less than a B (or unsatisfactory) is earned, the course may be repeated.
The student must be in good standing to repeat a course, and any course may be repeated only once.

3. Complete a minimum of six semester hours in each calendar year.

4. A minimum of 80 credit hours is required for graduation from the DMP program (60 credits for students admitted with a masters degree).

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully present his/her final research project by the posted deadline. The presentation must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted research project to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

HPS 602 - Radiation Detection Credits 3
Provides a basic understanding of dosimetry and radiation detection. Energy loss through the interaction of radiation with matter. Differing types of spectrometry, electronics, and instrumentation involved in radiation detection. Statistics, errors, and interpretation encountered in data collection. Notes: This course is crosslisted with HPS 402. Credit at the 600-level requires additional work.

HPS 603 - Radiation Physics and Instrumentation Laboratory Credits 3
Laboratory experiments in basic radiation physics and detection. Includes operation and calibration of survey instruments and gas-filled counters. Theory and operation of alpha and gamma spectrometry equipment and liquid scintillation counters. Laboratories and discussions on counting statistics and basic electronics. Notes: This course is crosslisted with HPS 403. Credit at the 600-level requires additional work.

HPS 611 - Health Physics Seminar Credits 1
Forum for students, faculty, and/or invited speakers to present research activities, current events, market issues, and new products in the area of health physics. Same as: HPS 411 Notes: May be repeated for a maximum of three credits.

HPS 616 - Advanced Health Physics Credits 3
Solutions to problems pertaining to radiation safety in the environment, industry, medical facilities, and nuclear reactors. Topics include shielding, accelerators, radon, non-ionizing radiation, and radiation dose-effect. Prerequisites: Graduate standing.

HPS 670 - Environmental Health Physics Credits 3
Cosmic and terrestrial radiation sources. Emphasis on TENORM, radon and pathway modeling. Topics include environmental regulations, nuclear fuel cycle, nuclear weapons testing and accidents, geohydrology and geochemistry. Notes: This course is crosslisted with HPS 470. Credit at the 600-level requires additional work.

HPS 676 - Sectional Anatomy Credits 3
Sectional anatomy of organs and systems is presented using medical imaging modalities such as magnetic resonance imaging, computed tomography, single photon emission computed tomography, positron emission tomography and ultrasound.

HPS 680 - Industrial Hygiene Credits 3
This course has been approved for graduate credit. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Prerequisites: BIOL 189 or CHEM 122

HPS 701 - Applied Nuclear Physics Credits 3
Atomic and nuclear structure; decay energetics and kinetics; interactions of radiation with matter; radiation protection standards; practical aspects of radiation protection; photon, neutron, beta and X-ray shielding; criticality; radiation protection at reactors, accelerators and medical facilities; radioactive material transportation regulations.

HPS 703 - Radiation Interactions and Transport Credits 3
Decay energetics and kinetics; interactions of radiation with matter, radiation protection standards; practical aspects of radiation protection; photon, neutron, beta, and x-ray shielding, radioactive material transportation regulations. Prerequisites: HPS 701.

HPS 718 - Radiochemistry Laboratory Credits 3
Laboratory experiments in radiation detection, counting statistics and radiochemical separations are discussed. The operation and calibration of alpha- and gamma-ray spectrometry equipment and liquid scintillation counters will be examined. Radiochemical separation and analysis of environmental samples are performed. Novel and standard procedures for sample examination will be covered. Prerequisites: Consent of instructor. Corequisite HPS 602

HPS 719 - Introduction to Radioanalytical Chemistry Credits 1
Introduction to the principles and concepts of radioanalytical chemistry, such as the use of tracers, carriers and spikes and isotope dilution analysis. Sample preparation and techniques for radioanalytical separations and source preparation. Differences between macro chemistry and tracer chemistry. Prerequisites: HPS 602.

HPS 720 - Radiation Dosimetry Credits 3
Mathematical treatment of the fundamental principles of internal and external radiation dosimetry. Pathway models and bioassay techniques studied to support the calculation of radiation dose from the intake of radioactivity. General external dosimetry from a variety of industrial and medical sources is addressed. Prerequisites: HPS 701 or consent of instructor.

HPS 730 - Advanced Radiation Biology Credits 3
Topics covered include: physics and chemistry of radiation absorption, cell survival curves, repair of radiation damage, radiation carcinogenesis, risk assessment models, cancer biology, model tumor systems, and dose fractionation in radiotherapy.

HPS 740 - Medical Imaging Physics Credits 3
Conceptual, mathematical, and diagnostic aspects of commonly used clinical imaging modalities including film-screen radiography, computed tomography, magnetic resonance imaging, single photon emission computed tomography, positron emission tomography, and ultrasound. Prerequisites: HPS 701 or consent of instructor.

HPS 740L - Diagnostic Medical Physics Clinical Rotation and Laboratory Credits 3
Covers the quality control and assurance aspects of commonly used clinical diagnostic modalities including film-screen and digital radiography, mammography, computed tomography, magnetic resonance imaging, single photon emission computed tomography (SPECT), and positron emission tomography (PET). Prerequisites: HPS 701 Corequisite HIPS 740 or consent of instructor.

HPS 742 - Radiation Therapy Physics Credits 3
Use of ionizing and nonionizing radiation in radiation therapy to cause controlled biological effects in cancer patients. Emphasis on external treatment techniques using photon and electron beams, internal treatment techniques, and treatment planning. Prerequisites: HPS 701 or consent of instructor.
HPS 742L - Therapy Physics Clinical Rotation and Lab Credits 3
An introductory course dealing with the practical aspects of clinical therapeutic physics. Labs will be performed in a clinical setting and students will be introduced to the technology and procedures commonly encountered in a modern radiation therapy facility. Prerequisites: HPS 742.

HPS 750 - Radiation Risk Assessment Credits 3
Descriptive and mathematical treatment of radionuclide transport, bioaccumulation, and human uptake. Notes: Risk analyses based on recent epidemiological studies reviewed. Prerequisites: HPS 670 or consent of instructor.

HPS 760 - Environmental Restoration and Radioactive Waste Management Credits 3
Introduction to the nuclear fuel cycle and management of nuclear waste. Introduction to repository design and performance assessment. Overview of waste form performance, contaminant transport, and risk assessment as applied to nuclear waste management. Prerequisites: HPS 701 or consent of instructor.

HPS 770 - Radiation Therapy Physics: External Beam Credits 6
The clinical course introduces basic concepts in external beam radiation therapy including dosimetry systems, accelerator acceptance testing and commissioning, quality assurance procedures, calibration protocols and monitor unit calculations. Grading: S/F grading only. Prerequisites: Consent of department.

HPS 771 - Dosimetric Aspects of Radiation Therapy I Credits 6
Clinical training in the fundamentals of external beam dosimetry. Includes treatment planning, record and verify systems, image fusion, and immobilization and positioning techniques used in patient simulations. Grading: S/F grading only. Prerequisites: HPS 770

HPS 772R - Radiation Therapy Physics: Brachytherapy Credits 3
Clinical training in high and low dose rate brachytherapy. Includes treatment planning, applicators and quality assurance procedures. Grading: S/F grading only. Prerequisites: HPS 771

HPS 773 - Radiation Protection, Radiation Safety and Quality Assurance Credits 3
Radiation surveys, safety policies and procedures, state and federal regulations, shielding calculations, and quality assurance procedures of imaging systems in a clinical environment. Grading: S/F grading only. Prerequisites: HPS 772R

HPS 774 - Dosimetric Aspects of Radiation Therapy II Credits 6
Grading: S/F grading only. Prerequisites: HPS 773

HPS 775 - Clinical Medical Physics I Credits 6
Survey of topics of importance to medical physicists in the radiation therapy clinic. Topics include treatment planning, computer commissioning, IGRT, process/practice (FMEA and TQM) and informatics. Notes: S/F grading only. Prerequisites: HPS 774

HPS 776 - Clinical Medical Physics II: Special Procedures Credits 6
Experience with special procedure techniques such as tomotherapy, total body irradiation, GammaKnife, CyberKnife and eye plaques. Grading: S/F grading only. Prerequisites: HPS 775

HPS 790 - Radiation Oncology Physics Clinical Internship Credits 1-3
Overview of clinical radiation oncology physics techniques including treatment planning, linear accelerator operation, commissioning and quality assurance, dose calibration and on-board imaging. Notes: May be repeated to a maximum of six credits.

HPS 791 - Graduate Seminar Credits 1
Forum for students, faculty, and/or invited speakers to present research activities, current events, market issues, and new products in the area of health physics. Same as: HPS 611 Notes: Repeatable up to 3 credits. Grading: Letter grade.
**Kinesiology and Nutrition Sciences**

Kinesiology is the study of human movement as it relates to human performance. The graduate degrees offered by the Department of Kinesiology and Nutrition Sciences are designed to prepare students for advanced study in biomedical sciences, clinical positions, and leadership positions in instituting physical fitness programs in public and private organizations. The department is committed to an interdisciplinary approach to professional preparation and scholarship and to creating an environment in which both basic and applied research in the field of kinesiology is stimulated. Comprehensive laboratories have been developed for the study of human performance, injury rehabilitation, and skill acquisition.

Students are afforded the opportunity to work closely with faculty in all areas of academics and research. The faculty members are recognized internationally through their scholarship and research and are enthusiastically committed to graduate education.

Department of Kinesiology and Nutrition Sciences offers programs of study that lead to a Doctor of Philosophy degree in Kinesiology or Interdisciplinary Health Sciences and a Master of Science degree in Kinesiology. These degree programs allow students a choice of preparation and opportunities to specialize in biomechanics, exercise physiology, motor learning/motor control and sports medicine. The goal of the graduate program in kinesiology is to provide students with the theory, knowledge, and skills necessary to apply the principles of human movement in a variety of community, research, clinical, or athletic settings, or to pursue advanced study at the doctoral level.

**Brian Schilling, Ph.D., Chair**

**Janet Dufek, Ph.D., Graduate Coordinator (Ph.D. program)**

**James W. Navalta, Ph.D., Graduate Coordinator (M.S. Kinesiology program)**

**Laura Kruskall, Ph.D., Graduate Coordinator (M.S. Nutrition Sciences program)**

**Kinesiology and Nutrition Sciences Faculty**

**Chair**

**Schilling, Brian. - Full Graduate Faculty Professor; B.S., Winona State University; M.S., Appalachian State University; PhD., University of Memphis. Rebel since 2016.**

**Ph.D. Graduate Coordinator**

**Dufek, Janet S. - Full Graduate Faculty Professor; B.S. University of Wisconsin, Superior; M.S. Illinois State University; Ph.D. University of Oregon. Rebel since 2002.**

**M.S. Kinesiology Graduate Coordinator**

**Navalta, James W. - Full Graduate Faculty Associate Professor; B.S., Brigham Young University, Hawaii; M.S., University of Nevada, Las Vegas; Ph.D., Purdue University. Rebel since 2012.**

**M.S. Nutrition Graduate Coordinator**

**Kruskall, Laura J. - Full Graduate Faculty Associate Professor; B.A. Mount Saint Mary College; M.S. Columbia University; Ph.D. Pennsylvania State University. Rebel since 1999.**

**Graduate Faculty**

**Ayim, Emmanuel - Associate Graduate Faculty Assistant Professor-in-Residence; B.S. University of Dayton; M.S. Grambling State University; Ph.D. University of Nevada, Las Vegas. Rebel since 2016.**

**Bhammar, Dharini M. - Full Graduate Faculty Assistant Professor; M.B.B.S. Topiwala National Medical College; M.S. Arizona State University; Ph.D. Arizona State University. Rebel since 2017.**

**Basu, Arpita - Full Graduate Faculty Associate Professor; M.S. University of Calcutta; Ph.D. Texas Women’s University. Rebel since 2017.**

**Coogan, Samantha. - Associate Graduate Faculty Director, Didactic Program in Nutrition and Dietetics; B.S., University of Nevada, Las Vegas; M.S., University of Nevada, Las Vegas. Rebel since 2016.**

**Dufek, Janet S. - Full Graduate Faculty Professor; B.S. University of Wisconsin, Superior; M.S. Illinois State University; Ph.D. University of Oregon. Rebel since 2002.**

**Girouard, Tedd. - Associate Graduate Faculty Program Director, Athletic Training; B.S. University of Nevada, Las Vegas; M.S. University of Nevada, Las Vegas. Rebel since 2009.**

**Gordon, Jennifer L. - Associate Professor-in-Residence; B.S. State University of New York Ononta; M.S. Georgia Southern University; Ph.D. Springfield College. Rebel since 2017.**

**Jonen, Will - Associate Graduate Faculty Associate Professor-in-Residence; B.S. University of Hawaii, Manoa; M.S./Ph.D. The Ohio State University. Rebel since 2017.**

**Kruskall, Laura J. - Full Graduate Faculty Associate Professor; B.A. Mount Saint Mary College; M.S. Columbia University; Ph.D. Pennsylvania State University. Rebel since 1999.**

**McGinnis, Graham – Full Graduate Faculty Assistant Professor; B.S. Appalachian State University; M.S. Auburn University; Ph.D. Auburn University. Rebel since 2018.**

**Mercer, John - Full Graduate Faculty Professor; B.S., Buffalo State College of New York; M.S., University of North Texas; Ph.D., University of Oregon. Rebel since 1999.**

**Navalta, James W. - Full Graduate Faculty Associate Professor; B.S., Brigham Young University, Hawaii; M.S., University of Nevada, Las Vegas; Ph.D., Purdue University. Rebel since 2012.**

**Poston, Bracher - Full Graduate Faculty Assistant Professor; B.S., Southwest Missouri State University; M.S., University of Nevada, Las Vegas; Ph.D., University of Colorado. Rebel since 2014.**

**Radzak, Kara M. - Full Graduate Faculty Assistant Professor; B.S., University of Texas, Austin; M.S., University of Colorado, Colorado Springs; Ph.D., University of Hawaii, Manoa. Rebel since 2015.**

**Samuel, Michelle. - Associate Graduate Faculty Clinical Education Coordinator; B.S. University of Nevada, Las Vegas; M.S. University of Nevada, Las Vegas. Rebel since 2011.**

**Schilling, Brian. - Full Graduate Faculty Professor; B.S., Winona State University; M.S., Appalachian State University; PhD., University of Memphis. Rebel since 2016.**

**Silvernail, Julia F. - Full Graduate Faculty Assistant Professor; B.S., University of Maryland; M.S., University of Nevada, Las Vegas; Ph.D., University of Tennessee. Rebel since 2014.**

**Tandy, Richard D. - Full Graduate Faculty Associate Professor; B.S., Appalachian State University; M.S., Ph.D., Texas A&M University. Rebel since 1989.**

**Webber, Kelly - Associate Graduate Faculty Visiting Associate Professor in Residence; M.S. North Carolina State University, Ph.D. University of North Carolina. Rebel since 2017.**

**Wulf, Gabriele - Full Graduate Faculty Professor, Diploma, Ph.D., Deutsche Sporthochschule Koln; Ph.D., University of Munich. Rebel since 2001.**

**Young, John C. - Associate Graduate Faculty Professor; B.S.Ed., M.S., University of Michigan; Ph.D., University of Wisconsin, Madison. Rebel since 1991.**
Doctor of Philosophy - Kinesiology

Plan Description
The Ph.D. program is designed specifically for professionals who desire tenure-track research, teaching, and administrative positions in postsecondary education. The Ph.D. program offers academic concentrations in Biomechanics, Exercise Physiology, and Motor Behavior.

Learning Objectives
1. Kinesiology Content Knowledge: demonstrate a broad conceptual knowledge of the Kinesiology field of study and develop related disciplinary content knowledge expertise in Biomechanics, Exercise Physiology, or Motor Behavior.
2. Effectively communicate knowledge in the discipline: Demonstrate the ability to write and speak about current scholarship and issues of the discipline to peers, practitioners, and the public.
3. Research Design: understand concepts pertinent to experimental research design relative to controlling internal and external threats to validity.
4. Research Methods: understand and applying sound scientific methodology to pursue a research question.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Admission to doctoral study will be granted to qualified applicants based on a combination of the following:
1. A master’s degree from an accredited college or university
2. Official copies of all postsecondary transcripts
3. Professional vita or resume
4. Evidence of writing ability with appropriate examples including excerpt from a master’s thesis, professional paper, or published article
5. Three letters of recommendation from previous instructors and/or professional colleagues attesting to the applicant’s ability to complete a doctoral program of study
6. A detailed statement explaining why the student desires admission to the program
7. A personal interview with the department graduate faculty.
8. Satisfactory GRE test scores (taken within five years from the date of application for admission)

Plan Requirements
See Subplan Requirements below.
Subplan 1: Biomechanics
Subplan 2: Motor Behavior
Subplan 3: Exercise Physiology

Subplan 1 Requirements: Biomechanics Track
Total Required Credits: 66

Course Requirements

Program Core Courses – Credits: 12
- KIN 743 - Research Techniques in Biomechanics
- KIN 747 - Graduate Seminar
- KIN 765 - Neurophysiology
- HSC 703 - Interdisciplinary Grant Writing for Health Sciences

Concentration Courses – Credits: 9
Complete 9 credits from the following list of courses or other advisor-approved courses:
- KIN 615 - Introduction to Forensic Kinesiology

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Admission Process
1. Contact the Department of Kinesiology prior to applying for admission.
2. Applications for the Ph.D. program will be considered once per year and deadline for receipt of application is March 1.
3. The online admissions application, fees, and transcripts should be submitted to the Graduate College. Further admission and application information may be obtained from the UNLV Graduate College website at: http://graduatecollege.unlv.edu/admissions.
4. Three letters of recommendation, professional resume or vita, GRE scores, official copies of all college transcripts, evidence of writing ability (e.g., excerpt from masters’ thesis, professional paper or published article), a detailed statement explaining why the student desires admission, and a statement demonstrating evidence of professional/ educational compatibility with program goals should be submitted through the online application system.
5. As a final step in the admission process, a personal interview with the graduate faculty will be conducted.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
KIN 656 - Biomechanics of Endurance Performance
KIN 736 - Biomechanical Applications in Kinesiology
KIN 737 - Biomechanics of Strength
KIN 746 - Computational Methods for Biomechanics
KIN 788 - Independent Study

Non-Specialization Core Course – Credits: 3
KIN 760 - Motor Skill Learning and Performance

Additional Non-Specialization Core Course – Credits: 3
Complete 3 credits from the following list of courses:
KIN 738 - Human Physiology
KIN 739 - Evaluation of Physical Working Capacity
KIN 740 - Advanced Exercise Physiology

Cognate Area Courses – Credits: 9
Complete 9 credits of advisor-approved cognate area coursework. Examples include:

Cognate Ia – Exercise Physiology
KIN 738 - Human Physiology
KIN 740 - Advanced Exercise Physiology
KIN 737 - Biomechanics of Strength
KIN 744 - Thermoregulation During Physical Work
KIN 745 - Human Energy Metabolism

Cognate Ib – Neurological Mechanisms
KIN 760 - Motor Skill Learning and Performance
KIN 762 - Motor Learning Applications
PSY 701 - Biological Bases of Behavior
PSY 719 - Behavioral Neuroscience

Cognate Ic – Engineering: Mathematics
MAT 688 - Partial Differential Equations
PHYS 702 - Classical Mechanics I
PHYS 703 - Classical Mechanics II
EGG 750 - Analysis of Human Movement
EGG 747 - Orthopedic Biomechanics - Lower Extremities and Spine
EGG 748 - Prosthetic Systems Engineering or EGG 651 - Ergonomics

Research Methodology Courses – Credits: 15
Complete 15 credits from the following list of courses and other advisor-approved courses.
KIN 751 - Selected Application of Statistical Techniques I
KIN 752 - Selected Application of Statistical Techniques II

Prospectus Course – Credits: 3
KIN 789 - Dissertation Prospectus

Dissertation – Credits: 12
KIN 799 - Dissertation

Subplan 2 Requirements: Motor Behavior Track
Total Required Credits: 66

Course Requirements

Program Core Courses – Credits: 12
KIN 743 - Research Techniques in Biomechanics
KIN 747 - Graduate Seminar
KIN 765 - Neurophysiology
HSC 703 - Interdisciplinary Grant Writing for Health Sciences

Concentration Courses – Credits: 9
Complete 9 credits from the following list of courses or other advisor-approved courses:
KIN 760 - Motor Skill Learning and Performance
KIN 761 - Human Motor Control
KIN 762 - Motor Learning Applications
KIN 788 - Independent Study

Non-Specialization Core Course – Credits: 3
KIN 736 - Biomechanical Applications in Kinesiology

Additional Non-Specialization Core Course – Credits: 3
Complete 3 credits from the following list of courses:
KIN 738 - Human Physiology
KIN 739 - Evaluation of Physical Working Capacity
KIN 740 - Advanced Exercise Physiology

Cognate Area Courses – Credits: 9
Complete 9 credits from the following list of courses or other advisor-approved courses:
PSY 701 - Biological Bases of Behavior
PSY 703 - Cognitive Psychology
PSY 704 - Social Psychology
PSY 719 - Behavioral Neuroscience
KIN 788 - Independent Study

**Research Methodology Courses – Credits: 15**
Complete 15 credits from the following list of courses and other advisor-approved courses.
KIN 751 - Selected Application of Statistical Techniques I
KIN 752 - Selected Application of Statistical Techniques II

**Prospectus Course – Credits: 3**
KIN 789 - Dissertation Prospectus

**Dissertation – Credits: 12**
KIN 799 - Dissertation

Subplan 3 Requirements: Exercise Physiology Track
Total Required Credits: 66

Course Requirements

**Program Core Courses – Credits: 12**
KIN 743 - Research Techniques in Biomechanics or KIN 700 - Special Problems in Kinesiology
KIN 747 - Graduate Seminar
KIN 765 Neurophysiology
HSC 703 - Interdisciplinary Grant Writing for Health Sciences

**Concentration Courses – Credits: 9**
Complete 9 credits from the following list of courses or other advisor-approved courses:
KIN 720 - Issues and Trends in Exercise Physiology
KIN 738 - Human Physiology
KIN 740 - Advanced Exercise Physiology
KIN 744 - Thermoregulation During Physical Work
KIN 788 - Independent Study

**Non-Specialization Core Course – Credits: 6**
KIN 736 - Biomechanical Applications in Kinesiology
KIN 760 - Motor Skill Learning and Performance

**Cognate Area Courses – Credits: 9**
Complete 9 credits from the following list of courses or other advisor-approved courses:
KIN 745 - Human Energy Metabolism
KIN 788 - Independent Study

Research Methodology Courses – Credits: 15
Complete 15 credits from the following list of courses and other advisor-approved courses.
KIN 751 - Selected Application of Statistical Techniques I
KIN 752 - Selected Application of Statistical Techniques II

Prospectus Course – Credits: 3
KIN 789 - Dissertation Prospectus

Dissertation – Credits: 12
KIN 799 - Dissertation

Plan Degree Requirements
1. Completion of a minimum of 66 credit hours with a minimum GPA of 3.00.
2. Scholarly Product Requirement – each student must satisfy a scholarly product requirement. This requirement can be met in one of two ways:
   1. Students may submit a research study to a refereed journal for publication.
   2. Students may submit a proposal for presentation of research at an annual conference of a national organization.
3. Student Advisory Committees - Students are required to select a graduate advisory committee by the end of their second semester.
   1. Advisory committees must consist of three Kinesiology graduate faculty members (one of which can be an associate graduate faculty member) and a graduate college representative from outside of the department.
   2. The chair of the advisory committee must be a graduate faculty member in the Department of Kinesiology.
   3. Advisory committees should be informed prior to the student’s completion of 16 credit hours.
4. The committee oversees the student’s progress, including the comprehensive exams.
5. A temporary advisor is assigned until the student becomes acquainted with the faculty and selects his/her advisory committee.

1. Comprehensive Examination – the student takes the comprehensive examination during the semester immediately preceding enrollment in dissertation.
   1. The comprehensive examination consists
of six questions in which the student is allotted two hours per question. Questions are constructed and scored by the student’s advisory committee.

2. Students must file intent to take comprehensive examinations, adhering to timelines cited for other graduate programs scheduled by the Graduate College and the Department of Kinesiology. Students may petition the Kinesiology Graduate Faculty for permission to take comprehensive examinations pending approval of the advisory committee.

3. The questions on the comprehensive examination address elements of content knowledge, research methodology, and related discipline electives. The student’s advisory committee provides general parameters from which questions are selected. “Take-home” examinations, in whole or in part, are not allowed. Students may use college provided technology for word-processing. Grading consists of two categories: Pass and Fail.

4. Upon receiving a passing grade for the written comprehensive examination, students will be required to pass an oral examination by their respective advisory committees. Students must successfully complete the written and oral comprehensive examinations before enrolling in dissertation hours.

1. Dissertation Proposal and Defense

1. Following the successful completion of the written and oral comprehensive examinations, the student must submit a dissertation proposal to the Doctoral Advisory Committee and submit the accompanying “Dissertation Prospectus Approval” form from the Graduate College. The Doctoral Advisory Committee will determine the acceptability of the prospectus.

2. Upon approval of the prospectus, the student must obtain approval for the study from the Institutional Review Board for the Protection of Human Subjects.

3. Upon completion of the dissertation, a defense will be scheduled and conducted in accordance with the Graduate College’s policy for dissertation completion. Students should obtain The Graduate Study Guide and the Guide to Preparing and Submitting a Thesis or Dissertation from the Graduate College web site.

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Exercise Physiology
(ON HOLD)

Plan Description

The Master of Science – Exercise Physiology is designed to provide the student with an understanding of the physiological effects of exercise on the human body. The program also emphasizes the effect of regular exercise on adults and offers students experience in conducting physical fitness evaluations, and exercise testing. In addition, the graduate is prepared for entrance into a doctoral program in exercise physiology.

The program emphasizes academic preparation in exercise physiology, laboratory experience, knowledge of research methodology, and statistics. Students must complete a thesis in the general area of exercise physiology.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website. Students are admitted in the fall, spring, and summer semesters. Applicants for admission must have an undergraduate major in kinesiology, exercise science, physical education, athletic training, biology, nutrition, or a related academic discipline.

Applicants must have a minimum overall undergraduate grade point average of 2.75 (A=4.0), or 3.00 (A=4.0) in the last two years. The Graduate Record Examination must be taken prior to applying. Successful applicants generally have a 3.00 undergraduate grade point average and a combined score of 300 on verbal and quantitative sections of the GRE and higher than 3.5 on the analytical section.

Interested applicants must send the following information to the Graduate College:

1. A completed application for graduate studies.
2. Official transcripts of all colleges and universities attended.

Interested applicants must upload the following information into the Grad Rebel Gateway system:

1. Copies of all transcripts sent to the Graduate College.
2. Official GRE scores.
3. A letter of intent that addresses: Reason(s) for wishing to earn an advanced degree. Motivation for attending UNLV. Summary of educational goals. Summary of research activities and interests. Possible faculty mentors.
4. Two letters of recommendation from persons familiar with the applicant’s academic record and potential for graduate study.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Required Credits: 33

Course Requirements
Required Courses – Credits: 12
- NUTR 605 - Advanced Sports Nutrition
- KIN 738 - Human Physiology
- KIN 739 - Evaluation of Physical Working Capacity
- KIN 740 - Advanced Exercise Physiology

Research Courses – Credits: 6
- KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research
- KIN 751 - Selected Application of Statistical Techniques I

Elective Courses – Credits: 9
Complete 9 credits of advisor-approved elective coursework.

Thesis – Credits: 6
- KIN 749 - Thesis

Degree Requirements
1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Kinesiology

Plan Description
The Master of Science – Kinesiology is designed for students interested in the study of human performance. Students are provided with the theoretical foundations of the movement-based sciences and select an emphasis in biomechanics, motor learning/control, or sports medicine. Through involvement in directed research projects, students obtain an in-depth understanding of laboratory equipment research and applications in the biomedical sciences. Graduates are prepared to make applications of the movement sciences in research, clinical or athletic settings and for entrance into doctoral programs in kinesiology.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Students are admitted in the fall, spring, and summer semesters. Applicants for admission must have an undergraduate major in kinesiology, exercise science, physical education, athletic training, biology, nutrition, or a related academic discipline.

Applicants must have a minimum overall undergraduate grade point average of 2.75 (A=4.0), or 3.00 (A=4.0) in the last two years. The Graduate Record Examination (GRE) must be taken prior to applying. Successful applicants generally have a 3.00 undergraduate grade point average and a combined score of 300 on verbal and quantitative sections of the GRE and higher than 3.5 on the analytical section Interested applicants must send the following information to the Graduate College:
1. A completed application for graduate studies.
2. Official transcripts of all colleges and universities attended.

Interested applicants must upload the following information into the Grad Rebel Gateway system:
1. Copies of all transcripts sent to the Graduate College.
2. Official GRE scores.
3. A letter of intent that addresses: Reason(s) for wishing to earn an advanced degree. Motivation for attending UNLV. Summary of educational goals. Summary of research activities and interests. Possible faculty mentors.
4. Two letters of recommendation from persons familiar with the applicant’s academic record and potential for graduate study.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track
Total Credits Required: 33

Course Requirements

Biomechanics Course – Credits: 3
Complete one of the following courses:
- KIN 656 - Biomechanics of Endurance Performance
- KIN 736 - Biomechanical Applications in Kinesiology
- KIN 737 - Biomechanics of Strength
- KIN 743 - Research Techniques in Biomechanics

Motor Learning/Motor Control Course – Credits: 3
Complete one of the following courses:
- KIN 760 - Motor Skill Learning and Performance
- KIN 761 - Human Motor Control
- KIN 762 - Motor Learning Applications

Exercise Physiology Course – Credits: 3
Complete one of the following courses:
- KIN 657 - Physiology of Endurance Performance
- KIN 738 - Human Physiology

- KIN 740 - Advanced Exercise Physiology

Research Courses – Credits: 6
- KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research
- KIN 751 - Selected Application of Statistical Techniques I

Specialization Courses – Credits: 9
Complete 9 credits of advisor-approved coursework. Research opportunities and course work are available in biomechanics, exercise physiology, motor learning/motor control, and sports medicine.

Elective Courses – Credits: 3
Complete 3 credits of advisor-approved elective coursework.

Thesis – Credits: 6
- KIN 749 - Thesis

Degree Requirements
1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track
Total Credits Required: 33
Course Requirements

Biomechanics Course – Credits: 3
Complete one of the following courses:
- KIN 656 - Biomechanics of Endurance Performance
- KIN 736 - Biomechanical Applications in Kinesiology
- KIN 737 - Biomechanics of Strength
- KIN 743 - Research Techniques in Biomechanics

Motor Learning/Motor Control Course – Credits: 3
Complete one of the following courses:
- KIN 760 - Motor Skill Learning and Performance
- KIN 761 - Human Motor Control
- KIN 762 - Motor Learning Applications

Exercise Physiology Course – Credits: 3
Complete one of the following courses:
- KIN 657 - Physiology of Endurance Performance
- KIN 738 - Human Physiology
- KIN 740 - Advanced Exercise Physiology

Research Courses – Credits: 6
- KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research
- KIN 751 - Selected Application of Statistical Techniques I

Specialization Courses – Credits: 9
Complete 9 credits of advisor-approved coursework. Research opportunities and course work are available in biomechanics, exercise physiology, motor learning/motor control, and sports medicine.

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved elective coursework.

Professional Paper – Credits: 3
- KIN 748 - Professional Paper

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a professional paper.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Master of Science - Nutrition Sciences

Plan Description

The mission of the Master of Science (M.S) – Nutrition Sciences program is to provide graduates with the skills and knowledge to be competent nutrition and dietetics professionals capable of providing excellent nutrition and dietetic services in numerous community, food service, management, and clinical settings. The program will provide an evidence-based curriculum with a translation to clinical/professional practice. This degree will satisfy the possession of a master’s degree in order to sit for the National Registration Examination for Dietitians.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degrees Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students are admitted in the fall and spring semesters. Applicants for admission must have an undergraduate major in nutrition, or a closely related academic discipline.

Applicants must have a minimum overall undergraduate grade point average of 2.75 (A=4.0), or 3.00 (A=4.0) in the last two years. The Graduate Record Examination must be taken prior to applying. Successful applicants will generally have a 3.00 undergraduate grade point average and a combined score of 300 on verbal and quantitative sections of the GRE and higher than 3.5 on the analytical section.

Applicants must apply online through the Grad Rebel Gateway system. In addition to all documents required by the Graduate College, applicants must upload the following information into the Grad Rebel Gateway system:

1. Official GRE scores.
2. A letter of intent that addresses: 1) Reason(s) for wishing to earn a M.S. in Nutrition Sciences; 2) motivation for attending this program at UNLV; 3) Summary of educational goals; 4) Summary of research activities and/or clinical interests; 5) Possible faculty mentors the applicant would be interested in working with.
3. Three letters of recommendation from persons familiar with the applicant’s academic record and potential for graduate study.

An applicant who is a non-native English speaker must provide proof of English language proficiency. A non-native speaker is an individual whose primary language in the home was a language other than English (or a non-English language) or who received K-12 (or equivalent) education in schools where English was not the medium of instruction. Prospective students must take the TOEFL iBT (Internet) exam and earn a minimum score of 100 to be eligible for this program. No other exam will be accepted.

Undergraduate Prerequisites (UNLV courses or equivalent). Preference given to students completing an ACEND accredited Didactic Program in Nutrition and Dietetics (DPND). This is the undergraduate program that provides all of the pre-requisite courses.

- CHEM 108 or CHEM 121/122/241
- BIOL 223/L/224/L BIOL 241
- MATH 124
- NUTR 301
- NUTR 223
- NUTR 370
- NUTR 451

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements. Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Non-Thesis Track
Subplan 2: Thesis Track

Subplan 1 Requirements: Non-Thesis Track

Total Credits Required: 33

Course Requirements

Research Methods - Credits: 6
- KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research
- KIN 751 - Selected Application of Statistical Techniques I

Core - Credits: 12
- KIN 740 - Advanced Exercise Physiology
- KIN 745 - Human Energy Metabolism
- NUTR 705 - Advanced Sports Nutrition Seminar

Choose one of the Following Courses:
- NUTR 727 - Advanced Clinical Nutrition and Dietetics
  OR
- NUTR 754 - Epidemiology of Nutrition & Physical Activity

Electives - Credits: 12

Complete 12 credits from the following list of courses:
- KIN 691 - Exercise Physiology
- NUTR 605 - Advanced Sports Nutrition
- NUTR 607 - Complimentary and Integrative MNT
- NUTR 652 - Advanced Nutrition
- NUTR 700 - Special Topics in Nutrition Sciences
- NUTR 720 - Lifestyle Modification for Chronic Disease
- NUTR 753 - Experimental Techniques in Nutrition and Metabolism
- NUTR 791 - Independent Study in Nutrition Sciences
- NUTR 796 - Supervised Practice: Community Nutrition and Dietetics
- NUTR 797 - Supervised Practice: Food Service Management
- NUTR 798 - Supervised Practice: Clinical Nutrition and Dietetics

Culminating Experience - Credits: 3
- NUTR 748 - Professional Paper- Clinical Case Study or Community Intervention Project

Degree Requirements

1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.

2. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend a professional paper and submit a Culminating Experience Results form to the Graduate College by the posted deadline.
Subplan 2 Requirements: Thesis Track
Total Credits Required: 33

Course Requirements

Research Methods - Credits: 6
- KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research
- KIN 751 - Selected Application of Statistical Techniques I

Core - Credits: 12
- KIN 740 - Advanced Exercise Physiology
- KIN 745 - Human Energy Metabolism
- NUTR 705 - Advanced Sports Nutrition Seminar
Choose one of the Following Courses:
- NUTR 727 - Advanced Clinical Nutrition and Dietetics
- OR
- NUTR 754 - Epidemiology of Nutrition & Physical Activity

Electives - Credits: 9
Complete 9 credits from the following list of courses:
- KIN 691 - Exercise Physiology
- NUTR 605 - Advanced Sports Nutrition
- NUTR 607 - Complimentary and Integrative MNT
- NUTR 652 - Advanced Nutrition
- NUTR 700 - Special Topics in Nutrition Sciences
- NUTR 720 - Lifestyle Modification for Chronic Disease
- NUTR 753 - Experimental Techniques in Nutrition and Metabolism
- NUTR 791 - Independent Study in Nutrition Sciences
- NUTR 796 - Supervised Practice: Community Nutrition and Dietetics
- NUTR 797 - Supervised Practice: Food Service Management
- NUTR 798 - Supervised Practice: Clinical Nutrition and Dietetics

Culminating Experience - Credits: 6
- NUTR 749 - Thesis

Degree Requirements
1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
2. In consultation with his/her advisor, a student will organize a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Subplan 1: Thesis Track
Subplan 2: Non-Thesis Track

CLS 624 - Clinical Hematology II Credits 3
Diagnostic hematology and body fluid analysis with emphasis on pathophysiology. Myeloproliferative, lymphoproliferative, myelodysplastic, acute and chronic leukemias and advanced topics in hemostasis presented through lectures, case studies and morphologic review of peripheral blood and bone marrow slides. Differential diagnosis of these disorders through specified laboratory tests. Notes: This course is crosslisted with CLS 424. Credit at the 600-level requires additional work.

CLS 625 - Clinical Hematology Laboratory II Credits 2
Diagnostic hematology and body fluid analysis with an emphasis on the laboratory tests, cytochemical stains, and molecular markers used to differently diagnose the various hematologic malignancies and hemostasis disorders. Laboratory unknowns and peripheral/bone marrow microscopic slides used to correlate clinical tests and theoretic principles. Notes: This course is crosslisted with CLS 425. Credit at the 600-level requires additional work.

CLS 632 - Clinical Microbiology I Credits 3
Introduction to medically significant microbial diseases of man. Microbial physiology and pathogenic interactions between man and microorganism. Epidemiology, triage, and diagnosis of microorganisms causing human diseases. Emphasis is on aerobic and anaerobic bacterial diseases, mycobacteria, vibrios, Legionella, Mycoplasma, spirochetes, Rickettsia and Chlamydia. Includes discussion of antimicrobial therapy and resistance mechanisms. Notes: This course is crosslisted with CLS 425. Credit at the 600-level requires additional work.

CLS 633 - Clinical Microbiology Laboratory I Credits 2
Introduction to isolation, diagnostic and identification techniques for microbial diseases of humans. Emphasis is on aerobic and anaerobic bacteria, mycobacteria, vibrios, Legionella, Mycoplasma, spirochetes, Rickettsia and Chlamydia. Includes conventional microscopic, culture, molecular and immunological techniques as well as susceptibility testing methods. Notes: This course is crosslisted with CLS 433. Credit at the 600-level requires additional work.
CLS 634 - Clinical Microbiology II Credits 3
Advanced medical microbiology. Microbial physiology and pathogenic interactions between man and microorganism. Epidemiology, prevention, diagnosis and treatment of microorganisms causing human diseases. Emphasis is on fungal, parasitic and viral diseases as well as miscellaneous bacteria from various body sites. Includes discussion of antimicrobial therapy and resistance mechanisms. Notes: This course is crosslisted with CLS 434. Credit at the 600-level requires additional work.

CLS 635 - Clinical Microbiology Laboratory II Credits 2
Advanced practical applications in the recovery, isolation and identification of microorganisms causing human disease. Emphasis is on methods for mycology, parasitology, and virology as well as miscellaneous bacteria from different body sites. Includes conventional microscopic, culture, molecular and immunological techniques as well as susceptibility testing methods. Notes: This course is crosslisted with CLS 435. Credit at the 600-level requires additional work.

CLS 642 - Clinical Chemistry I Credits 3
Chemical analysis indicative of human health and disease. Theory and utilization of biochemical instrumentation including photometry, electrochemical, and electrophoresis. Emphasis placed on method application to analysis of carbohydrates, proteins, electrolytes, liver and pancreatic function. Notes: This course is crosslisted with CLS 442. Credit at the 600-level requires additional work.

CLS 643 - Clinical Chemistry I Laboratory Credits 1
Manual and automated chemical methods used to measure normal and abnormal constituents, such as glucose, electrolytes, and proteins, in blood and body fluids. Use of spectrophotometric techniques, recognition of technical problems and selected abnormalities discussed. Notes: This course is crosslisted with CLS 443. Credit at the 600-level requires additional work.

CLS 644 - Clinical Chemistry II Credits 3
Advanced study of chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Emphasizes interdependency, physiological conditions affecting test results and clinical significance. Topics include endocrinology, toxicology, and radioimmunoassay. Notes: This course is crosslisted with CLS 444. Credit at the 600-level requires additional work.

CLS 645 - Clinical Chemistry II Laboratory Credits 1
Advanced laboratory applications in chemical analysis of blood, urine and other body fluids in normal and abnormal physiological conditions. Emphasizes interdependency, physiological conditions affecting test results and clinical significance. Topics include endocrinology, toxicology and radioimmunoassay. Notes: This course is crosslisted with CLS 445. Credit at the 600-level requires additional work.

CLS 614 - Enhancing Mental and Motor Abilities Credits 3
Topics of mental and motor abilities including attention, arousal states, information processing, and practice schedules. Special emphasis on enhancing motor performance through mental strategies. Notes: This course is crosslisted with KIN 414. Credit at the 600-level requires additional work.

KIN 615 - Introduction to Forensic Kinesiology Credits 3
Survey of forensic investigation. Focus on personal injury and accident avoidance from an interdisciplinary perspective. Emphasis on humans and their interactions in the physical environment. Notes: This course is crosslisted with KIN 415. Credit at the 600-level requires additional work.

KIN 656 - Biomechanics of Endurance Performance Credits 3
The primary objective of this course is to provide a study of endurance performance from a biomechanical perspective. At the conclusion of the course, the student will be able to apply biomechanical terminology to understand factors that influence endurance swimming, biking, and running performance, for example.

KIN 657 - Physiology of Endurance Performance Credits 3
The primary objective of this course is to provide a study of endurance performance from an exercise physiology perspective. At the conclusion of the course, the student will be able to demonstrate an understanding of physiological factors that influence endurance swimming, biking, and running performance, for example.

KIN 685 - Physical Activity and the Law Credits 3
Legal principles associated with physical activity professions. Emphasis on practical application of legal issues in risk management, safety procedures, negligence, liability, contracts, and professional ethics, as well as recognition and minimization of legal risk during physical activity. Notes: This course is crosslisted with KIN 485. Credit at the 600-level requires additional work.

KIN 691 - Exercise Physiology Credits 3
Physiological changes in human organisms during physical exercise; physiological bases for planning physical education programs; observations of respiratory, circulatory, nervous, and metabolic adjustments to physical exercise. Laboratory experience to enhance learning. Notes: This course is crosslisted with KIN 491. Credit at the 600-level requires additional work.

KIN 692 - Clinical Exercise Physiology Credits 3
Pathophysiology of cardiovascular disease; role of exercise in treatment and prevention of coronary heart disease; exercise stress testing principles and procedures; prescribing exercise programs for healthy adults and patient populations. Notes: This course is crosslisted with KIN 492. Credit at the 600-level requires additional work.

KIN 700 - Special Problems in Kinesiology Credits 1 – 9
Specialized instruction and/or research designed to develop depth in understanding a current kinesiology problem. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.

KIN 730 - Organization and Administration of Athletic Training Credits 3
Develop and utilize organization and administrative theories and philosophies in managing facilities, co-workers and students in a variety of athletic settings.

KIN 731 - Orthopedic Assessment in Sports Medicine Credits 3
Theory and methods of orthopedic assessment as they relate to the understanding, evaluation, treatment, and rehabilitation of sport injuries. Emphasis on advanced understanding of the theoretical applications of advanced assessment techniques for orthopedic injuries. Prerequisites: Consent of instructor.

KIN 733 - Psychological Aspects of Sport and Rehabilitation Credits 3
Overview of theoretical concepts and techniques in sport psychology. Emphasis on the application of psychology to human movement, skilled athletic performance, and injury rehabilitation.

KIN 734 - Therapeutic Intervention in Sports Medicine Credits 3
Theoretical background in the application of therapeutic intervention in a practical setting.

KIN 735 - Sports Medicine Rehabilitation Principles and Practices Credits 3
Provides opportunity to study theory and techniques of various exercise rehabilitation processes and apply these processes on a case study basis. Prerequisites: Graduate standing and consent of instructor.

KIN 736 - Biomechanical Applications in Kinesiology Credits 3
Provides opportunity to learn mechanical principles underlying human movement and apply these skills in a laboratory situation. Prerequisites: Graduate standing and consent of instructor.

KIN 737 - Biomechanics of Strength Credits 3
Interdisciplinary examination of concepts and principles involved in strength development and force production. Includes study of neurological, physiological and mechanical factors affecting force/tension/power generation, and biomechanical interactions with external loads and various resistance training equipment. Prerequisites: Graduate standing or consent of instructor.
KIN 730 - Human Physiology Credits 3
Study of mechanisms which regulate physiological systems and the way regulation functions to maintain homeostasis. Emphasis on those systems involved in the integrated response to exercise. Prerequisites: Consent of instructor, undergraduate course in anatomy and physiology.

KIN 730 - Human Physiology Credits 3
Study of mechanisms which regulate physiological systems and the way regulation functions to maintain homeostasis. Emphasis on those systems involved in the integrated response to exercise. Prerequisites: Consent of instructor, undergraduate course in anatomy and physiology.

KIN 730 - Human Physiology Credits 3
Study of mechanisms which regulate physiological systems and the way regulation functions to maintain homeostasis. Emphasis on those systems involved in the integrated response to exercise. Prerequisites: Consent of instructor, undergraduate course in anatomy and physiology.

KIN 730 - Human Physiology Credits 3
Study of mechanisms which regulate physiological systems and the way regulation functions to maintain homeostasis. Emphasis on those systems involved in the integrated response to exercise. Prerequisites: Consent of instructor, undergraduate course in anatomy and physiology.

KIN 739 - Evaluation of Physical Working Capacity Credits 3
Concepts and methodology in the measurement of energy metabolism in humans. Examination of the various methods used to measure physical working capacity with the treadmill and ergometry. Understanding of basic electrophysiology of myocardium and pulmonary function measurements. Prerequisites: Consent of instructor.

KIN 740 - Advanced Exercise Physiology Credits 3
Lecture, discussion, and laboratory experiences dealing with impact of acute and chronic exercise on several systems. Selected topics such as nutrition and exercise, weight control, physical working capacity, and body composition. Prerequisites: KIN 739

KIN 743 - Research Techniques in Biomechanics Credits 3
Examination of some of the techniques used in biomechanical research for data collection, analysis, and presentation. Emphasis on developing an understanding of experimental techniques, their capabilities and limitations. The lecture/discussion/lab sessions provide a historical and theoretical basis for each of the techniques examined. Prerequisites: Graduate standing or consent of instructor.

KIN 744 - Thermoregulation During Physical Work Credits 3
Emphasizes physical mechanisms of heat transfer and their physiological control: relationship among body temperatures, sweat rate, exercise loads, environmental temperature, and heat stress. Same as: (BIO 744) Prerequisites: KIN 739 and consent of instructor.

KIN 745 - Human Energy Metabolism Credits 3
Study of the interactions between nutrition, energy metabolism, and physical exercise. Emphasis on how the body assimilates, stores, and makes available food energy to power muscular work. Prerequisites: KIN 739 or consent of instructor.

KIN 746 - Computational Methods for Biomechanics Credits 3
The primary objective of this course is to learn to create and use programs to analyze collected data using current biomechanical software. Prerequisites: KIN 739

KIN 747 - Graduate Seminar Credits 1
Oral presentations of proposed and completed research by graduate students, graduate faculty, and guests. Notes: May be taken for credit to a maximum of four credits.

KIN 748 - Professional Paper Credits 1 – 6
Professional paper preparation and subsequent defense. Notes: May be repeated but only three credits will be applied to the student’s program. Grading: S/F grading only.

KIN 749 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

KIN 750 - Research Methods in Kinesiology and Nutrition Sciences Research Credits 3
Overview of the research process, introducing methods and tools specifically for kinesiology and nutrition disciplines. Procedures for formulating a research proposal, hypothesis testing, experimental designs, statistical applications, and critically evaluating research. Same as: No Grading: Letter Grade

KIN 751 - Selected Application of Statistical Techniques I Credits 3
Introduction to descriptive and inferential statistical procedures utilized in studies reported in exercise science, health, physical education, and recreation. Same as: HSC 700 Grading: Letter grade

KIN 752 - Selected Application of Statistical Techniques II Credits 3
Statistical analysis techniques including correlation and regression, anova, multivariate analysis, manova for repeated measures designs. Introduction to selected statistical software packages; computer-aided graphics and data presentation techniques. Prerequisites: KIN 751 or consent of instructor.

KIN 754 - Health Science Writing and Communication Credits 3
Effective oral and written communication is essential to the science and practice of health. Learn and apply communication techniques for oral and poster presentations, scientific articles, white papers, and lay summaries. Same as: HSC 706 Grading: Letter grade Prerequisites: KIN 750

KIN 755 - Research on Physical Activity Behavior Credits 3
Students review the scholarly literature pertaining to physical activity behavior. Papers with special implications for building a general knowledge base requisite to the conduct of research on physical activity behavior are read, discussed, and critically analyzed.

KIN 760 - Motor Skill Learning and Performance Credits 3
Sensory and central contributions to skilled movement, and practice methods that enhance motor skill learning (e.g., in sports, physical therapy, athletic training, music). Discussions of influential factors such as feedback, attentional focus, unconscious learning, learning through observation, learner autonomy, practice scheduling, social-cognitive-affective influences on learning, and performance under pressure.

KIN 761 - Human Motor Control Credits 3
Advanced studies in motor control, including sensory and central contributions to movement control, balance, movement observation, focus of attention, mindset, social-cognitive-affective influences on motor performance.

KIN 762 - Motor Learning Applications Credits 3
Designed to explain basic concepts of motor learning involved in organizing and scheduling practice for efficient learning/teaching of motor skills. Includes discussions of memory, feedback, stages of learning, and other motor learning principles.

KIN 765 - Neurophysiology of Movement Credits 3
Neural mechanisms that underly the planning and execution of human voluntary movement. Application to laboratory, clinical, and practical settings. Grading: Letter Grade

KIN 775 - Internship in Athletic Administration Credits 3
The internship in Athletics is a culminating experience that provides an opportunity to apply knowledge and skills learned in the academic program while working within an athletic administration or related organization. Students will work under the direction of a supervisor in a area related to their selected interest for future employment. Notes: May be repeated to a maximum of six credits.

KIN 780 - Independent Study Credits 1-9
Independent study of a selected topic in kinesiology and nutrition sciences. Notes: Repeatable up to 9 credits.

KIN 789 - Dissertation Prospectus Credits 3
Acquaints students with resources available to assist in the conceptualization of research design and literature review in preparation of the formal dissertation proposal. Formerly PED 796 Prerequisites: Admission to doctoral program.

KIN 790 - Guided Research in Health Sciences Credits 3
 immersive research experience where learners participate in all aspects of research from planning, IRB/IACUC, data collection, data analysis, and dissemination. Notes: May be repeated to a maximum of nine credits. Prerequisites: KIN 750

KIN 799 - Dissertation Credits 1 – 12
Culminating research analysis and writing toward completion of dissertation and subsequent defense.
NUTR 605 - Advanced Sports Nutrition Credits 3
Sports Nutrition practices and guidelines utilized by competitive and recreational athletes. The role of nutrient utilization and metabolism during exercise. Emphasis on evidence-based practice. Notes: This course is crosslisted with NUTR 405. Coursework at the 600-level requires additional work.

NUTR 607 - Complimentary and Integrative MNT Credits 3
Emphasis on research methods and science-based literature to evaluate the safety, standardization and efficacy of popular therapies, including herals, botanicals, and dietary supplements for preventive and nontraditional medical nutrition therapies. Notes: This course is crosslisted with NUTR 407. Coursework at the 600-level requires additional work. Prerequisites: Admission into the M.S. Nutrition Sciences program or consent of instructor.

NUTR 652 - Advanced Nutrition Credits 3
Investigation of common human metabolic disorders. Develop an understanding of the role of nutrition in the etiology and treatment of these disorders through examination of case studies. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 700 - Special Topics in Nutrition Sciences Credits 1-6
Examines current or controversial topics in nutrition sciences. Topic chosen based on current or evolving practices in the field and student interest. Notes: May be repeated to a maximum of six credits. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 705 - Advanced Sports Nutrition Seminar Credits 3
Evaluation of current sports nutrition guidelines. Examination of the relevant research used to establish these recommendations. Prerequisites: NUTR 605

NUTR 720 - Lifestyle Modification for Chronic Disease Credits 3
The impact of nutrition, physical activity, and behavior modification on the chronic disease process, focusing primarily on cardiovascular disease, type 2 diabetes, neurodegenerative disease, and cancer. Emphasis on the causes and associated risk factors, and on modification of risk factors through lifestyle changes. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 727 - Advanced Clinical Nutrition and Dietetics Credits 3
Explore the in-depth research used to establish the current medical nutrition therapy practice guidelines. Current hot topics within nutrition related conditions or diseases will be evaluated. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 748 - Professional Paper- Clinical Case Study or Community Intervention Project Credits 3
Experience will include a clinical case study or community intervention project, analysis and writing toward completion and subsequent defense. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 749 - Thesis Credits 3-6
Culminating research analysis and writing toward completion of thesis and subsequent defense. Notes: May be repeated to a maximum of six credits. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 753 - Experimental Techniques in Nutrition and Metabolism Credits 3
Examination of laboratory methods used in nutrition research through experiments requiring variations in diet, and techniques for obtaining and analyzing samples. Emphasis on data collection, analysis, and presentation of results.

NUTR 754 - Epidemiology of Nutrition & Physical Activity Credits 3
Concepts of epidemiology and related biostatistics, dietary and physical activity assessment methods. Critical evaluation of study designs. Prerequisites: KIN 750 or permission of instructor.

NUTR 791 - Independent Study in Nutrition Sciences Credits 1-3
Independent study of a selected topic in nutrition sciences. Notes: May be repeated to a maximum of six credits. Prerequisites: Admission into the M.S. Nutrition Sciences program.

NUTR 796 - Supervised Practice: Community Nutrition and Dietetics Credits 2
For Students accepted into the Department of Nutrition Sciences Dietetic Internship. Students gain intensive experiences covering all aspects of community nutrition programming. Students will observe the diversity within community nutrition in terms of mission, target audience and programs and will actively participate in nutrition program development, implementation, evaluation, and marketing. Corequisite KIN 797 and KIN 798.

NUTR 797 - Supervised Practice: Food Service Management Credits 2
For students accepted into the Nutrition Sciences Dietetic Internship. Supervised experience in managing the diet office, tray line production and supervision, food service production, cafeteria management, and hospital catering. Corequisite KIN 796 and KIN 798.

NUTR 798 - Supervised Practice: Clinical Nutrition and Dietetics Credits 2
For students accepted into the Department of Nutrition Sciences Dietetic Internship. Students will gain the skills required to screen and assess individual patients, interpret laboratory values, develop and implement appropriate care plans, complete appropriate diet instructions, and document all assessment and plan information in correct medical chart format. Corequisite KIN 797 and KIN 798.

Graduate Catalog • Division of Health Sciences 429
The Department of Physical Therapy offers a graduate program of study that leads to a Doctor of Physical Therapy (DPT) degree. The department is also part of the Interdisciplinary Health Sciences Ph.D. offered by the Graduate College.

The mission of the UNLV Department of Physical Therapy is to enhance the quality of life and health of Nevada residents and beyond by:

- Engaging in and disseminating research that advances the science and practice of physical therapy;
- Promoting the movement system as the foundation for optimizing movement to improve the health of society;
- Endorsing the philosophy of the Quadruple Aim;
- Developing competent and compassionate practitioners who are prepared to engage in critical thinking, life-long learning, evidence-based practice, and to provide interprofessional care;
- and, Modeling service to the community, including rural and underserved areas.

The Doctor of Physical Therapy (DPT) program is designed to prepare students to plan and administer treatment to help patients regain diminished physical function lost secondary to injury or disease, to promote soft tissue healing, and to relieve pain. By determining the degree of impairment, physical therapists are then able to help patients return to full function by using various physical agents such as electrical stimulation, heat, and cold to decrease pain and by using manual therapy interventions and therapeutic exercises to increase range of motion, strength, endurance, and coordination.

The purpose of the DPT program is to provide students pursuing a career in physical therapy the opportunity to acquire the knowledge and skills required for the safe practice of physical therapy. Students are prepared as generalists, but also have some opportunity to investigate specialized aspects of physical therapy through numerous clinical experiences. The program of study consists of approximately 112 credit hours of graduate coursework and consists of intense academic and clinical work spread over six semesters and three summers. These hours are divided between classroom, clinical and research activities.

The DPT degree is an entry-level professional program designed to provide individuals with appropriate baccalaureate degrees the knowledge and skills to develop clinical and research expertise in the provision of physical therapy. Upon receiving this degree, students will be eligible to sit for the national licensure examination in physical therapy.

The Doctor of Philosophy degree in Interdisciplinary Health Sciences will provide students from different disciplines an opportunity to learn how to approach complex healthcare problems. Team science will direct this activity and will prepare students to create functioning teams to solve problems that interface with a number of different disciplines. Understanding team science concepts will better position graduates as valuable and productive research and academic collaborators who will be able to answer broader and more important translational research questions. This team science concept will form the core of the coursework in this program. These core interdisciplinary courses will be the foundation of the Ph.D.; however, students will also develop expertise in a specialized area of study.

Merrill Landers, PT, DPT, Ph.D., Chair
Daniel Young, PT, DPT, Ph.D., Graduate Coordinator
Keoni Kins, PT, DPT, Graduate Coordinator

Physical Therapy Faculty

Chair
Landers, Merrill - Full Graduate Faculty Professor; B.S., Brigham Young University; D.P.T., Creighton University; Ph.D., University of Nevada Las Vegas. Rebel since 2001.

Graduate Coordinators
Young, Danny - Full Graduate Faculty Associate Professor; B.S., Southern Utah University; D.P.T., Creighton University; Ph.D., University of Nevada Las Vegas. Rebel since 2007.
Kins, Keoni - Associate Graduate Faculty Administrative Clinical Coordinator; B.S., University of Montana; D.P.T., University of Nevada Las Vegas. Rebel since 2014.

Graduate Faculty
Barrett, Tiffany - Full Graduate Faculty Assistant Professor, Faculty in Residence; B.S., University of Nevada, Reno; D.P.T., University of Colorado.

Gillis, Carrie - Full Graduate Faculty Assistant Professor; B.S., Oklahoma City University; D.P.T., University of Nevada Las Vegas. Rebel since 2012.

Ho, Kai-Yu - Full Graduate Faculty Assistant Professor; B.S. and M.S., National Chen Kung University, Taiwan; Ph.D., University of Southern California. Rebel since 2013.

Turner, Cassy - Full Graduate Faculty Associate Professor, Faculty in Residence; B.S. and D.P.T., University of Nevada Las Vegas. Rebel since 2011.

Lee, Szu-Ping- Full Graduate Faculty Associate Professor; B.S., National Yang-Ming University, Taiwan; M.S., University of Florida; Ph.D., University of Southern California. Rebel since 2012.

Liang, Jing Nong- Full Graduate Faculty Assistant Professor; B.S. and M.S., Chang Gung University, Taiwan; Ph.D., Northwestern University, Illinois. Rebel since 2016.

Nash, Jennifer - Full Graduate Faculty Assistant Professor, Faculty in Residence; B.S., University of Arizona; M.S. and D.P.T., Northern Arizona University. Rebel since 2017
Doctor of Physical Therapy

This program is accredited by: CAPTE. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The course of study at the University of Nevada, Las Vegas is an entry-level professional program designed to prepare students to enter the profession of physical therapy. A Doctor of Physical Therapy Degree is awarded following the successful completion of the program that consists of intense academic and clinical work spread over six semesters and three summers. Students are prepared as generalists, but also have an opportunity to investigate specialized aspects of physical therapy through numerous clinical exposures. The program of study consists of 112 credit hours of graduate course work. These hours are divided among classroom, clinical, and research activities.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students enrolling in any class in the Department of Physical Therapy must be admitted (graduate standing only, no graduate provisional standing accepted) to the program in the Summer semester of each year. Since enrollment is limited in the Physical Therapy program, satisfactory completion of prerequisite courses does not assure an applicant of admission. No student may take any class as a “Non-Degree Seeking” student. Admissions criteria are reviewed by the faculty annually and are subject to change.

Prior to application to the program, the individual is advised to fully explore the nature of the profession of physical therapy. Students are expected to volunteer in or visit various physical therapy facilities in order to gain a broad view of the roles and responsibilities of a physical therapist. As part of the interview process, students will be assessed on their knowledge of the scope of the profession of physical therapy.

After applications are received, they are reviewed regarding the minimum requirements, i.e., baccalaureate degree, GPAs, etc. Only the leading candidates will be invited for interviews during the Spring semester, which are based on satisfactory completion of the admission requirements.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The following requirements are considered for admission into the Doctor of Physical Therapy program:

1. Prior to entering the program, candidates must complete prerequisite courses and earn a baccalaureate degree from an accredited college or university. There is no preference given to any particular baccalaureate degree.

2. A minimum overall undergraduate grade point average of 3.0 on a 4.0 scale with a minimum average of 3.0 on a 4.0 scale for prerequisite courses.

3. A composite score of 300 or higher on the verbal and quantitative sections of the Graduate Record Examination (GRE) is preferred. A score of 4 out of 6 is recommended on the Analytical Writing Section of the GRE.

4. Students must apply to the DPT program via the new Physical Therapy Centralized Application Service (PTCAS). Only applications from PTCAS will be considered. Please use the URL www.ptcas.org to complete your application.

5. The following are required with your application to PTCAS:
   a. Three letters of recommendation. Two of the letters need to be from a licensed physical therapist who can evaluate the applicant’s potential as a student in the physical therapy program. The remaining letter can be from a former professor or employer.
   b. An autobiographical statement of approximately 300 words describing the student’s professional goals and reasons for seeking graduate education in physical therapy.
   c. Knowledge of the field through actual work or volunteer experience (a minimum of 100 hours or more divided among hospital and outpatient facilities). Additional hours in diversified settings are strongly recommended.

6. An interview will be required.

Information to be submitted to the Graduate College:

1. Complete and submit the Graduate College online application for admission, with appropriate fees.

2. Official transcripts from all previous college and professional schools.

The program is open to qualified applicants without regard to race, color, religion, sex, sexual orientation, age, national origin, marital status, or the presents of any physical, sensory, or mental disability.

Prerequisite Courses

In addition to completing the requirements of a baccalaureate degree, applicants must have completed or be able to complete the necessary specific hours of prerequisite course work with a grade of at least a C prior to admission to the program. Grades below a C in prerequisite courses will not be accepted. No more than two prerequisite science courses should be in progress or incomplete and all prerequisite science courses must be completed by the end of the spring semester (quarter) prior to commencing the program. Those students in the process of fulfilling the requirements of a prerequisite course must realize that their acceptance into the program is contingent upon satisfactory completion of that course during the application process.
Courses taken on a pass-fail basis may not fulfill prerequisite requirements. Prerequisite course work must have been completed within 10 years from application cycle to fulfill requirements, which are as follows:

1. One year of lecture-based biology courses
2. One year of laboratory and lecture-based anatomy and physiology courses
3. One year of laboratory and lecture-based inorganic chemistry
4. One year of laboratory and lecture-based physics
5. One year psychology (introduction to psychology and one semester of either child, adolescent, developmental or abnormal psychology)
6. One semester statistics

Advisement
All entering students will be assigned a specific faculty member for advisement.

Policies and Procedures
Policies and procedures for didactic and clinical work regarding course grades, probation, separation, and reapplication are detailed in the Department of Physical Therapy Student Manual and Clinical Education Manual.

Objectives
1. To prepare students to be the purveyors of physical therapy practice through clinical excellence, critical thinking, scientific inquiry, and social responsibility.
2. To prepare students to differentially diagnose enabling them to establish an appropriate plan of care and provide referral as necessary.
3. To prepare graduates who will be able to work autonomously in a wide variety of settings and roles as practitioners, clinical educators and researchers, supervisors, administrators and consultants.
4. To prepare students to adapt to changes in health care and society and be prepared to work in challenging environments with elderly, rural, and underserved populations.
5. To educate students in the design and implementation of culturally competent health care.
6. To develop scientific practitioners, who are able to demonstrate the ability to critically analyze literature, utilize evidence-based integrated treatment approaches, and value clinical based research.
7. To prepare graduates to educate and encourage patients to achieve functional independence so they may have an improved quality of life and become more productive members of society.
8. To prepare graduates who will be able to organize and promote health awareness, wellness, and prevention education, and reintegrate populations with special needs into the community throughout-reach programs.
9. To prepare graduates to assume a leadership role in addressing critical issues that affect clinical practice, education, research, and public policy.
10. To prepare graduates to be committed to a lifetime of self-directed learning, professional development, integrity, community involvement, and to exemplify professional and personal ethics and values.
11. To prepare graduates to demonstrate understanding of medico-legal issues in physical therapy practice through active involvement in professional organization.
12. To educate students on the benefits of working interdependently with other health care professionals using a team approach to patient care.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 112

Course Requirements

Summer Semester 1st Year Courses - Credits: 8
- DPT 726 - Evidenced-Based Practice in Physical Therapy I
- DPT 727 - Evidence-Based Practice in Physical Therapy
- DPT 744 - Gross Anatomy I
- DPT 744L - Gross Human Anatomy Lab I
- DPT 745 - Gross Anatomy II
- DPT 745L - Gross Human Anatomy Lab II

Fall Semester 1st Year Courses - Credits: 19
- DPT 730 - Foundations of Observation and Assessment
- DPT 730L - Foundations of Observation and Assessment Lab
- DPT 741 - Orthopaedic Principles
- DPT 742 - Clinical and Pathological Physiology
- DPT 746 - Neuroanatomy
- DPT 746L - Neuroanatomy Lab
- DPT 749 - Applied Exercise Physiology
- DPT 749L - Applied Exercise Physiology Lab

Spring Semester 1st Year Courses - Credits: 19
- DPT 732 - Therapeutic Exercise
- DPT 732L - Therapeutic Exercise Lab
- DPT 748 - Pharmacology
- DPT 754 - Orthopaedic Assessment in Physical Therapy
- DPT 754L - Orthopaedic Assessment in Physical Therapy Lab
• DPT 756 - Neurophysiology
• DPT 788 - Spine Examination and Treatment
• DPT 788L - Spine Examination and Intervention Lab
• DPT 790 - Clinical Research in Physical Therapy

Summer Semester 2nd Year Courses - Credits: 8
• DPT 740 - Movement Science
• DPT 752 - Physical Agents and Electrophysiology
• DPT 752L - Physical Agents and Electrophysiology Lab
• DPT 761 - Supervised Clinical Education I

Fall Semester 2nd Year Courses - Credits: 16
• DPT 720 - Professional Development III
• DPT 757 - Wound Care
• DPT 770 - Cardiopulmonary Rehabilitation
• DPT 770L - Cardiopulmonary Rehabilitation Lab
• DPT 785 - Orthopaedic Rehabilitation
• DPT 785L - Orthopaedic Rehabilitation Lab
• DPT 786 - Neurological Rehabilitation
• DPT 786L - Neurologic Rehabilitation Laboratory Experience
• DPT 791 - Applied Research Statistics

Spring Semester 2nd Year Courses - Credits: 17
• DPT 735 - Functional Training and Acute Care
• DPT 735L - Functional Training and Acute Care Lab
• DPT 747 - Geriatric Examination and Intervention
• DPT 750 - Prosthetics and Orthotics
• DPT 750L - Prosthetics and Orthotics Lab
• DPT 758 - Diagnostic Testing and Imaging
• DPT 759 - Pediatric Rehabilitation
• DPT 759L - Pediatric Rehabilitation Laboratory Experience
• DPT 780 - Balance and Vestibular Rehabilitation
• DPT 793 - Seminar

Summer Semester 3rd Year Courses - Credits: 6
• DPT 751 - Women’s Health in Physical Therapy
• DPT 772 - Physical Therapy Administration
• DPT 774 - Psychosocial Aspects of Physical Therapy

Fall Semester 3rd Year Courses - Credits: 10
• DPT 762 - Supervised Clinical Education II
• DPT 763 - Supervised Clinical Education III

Spring Semester 3rd Year Courses - Credits: 9
• DPT 764 - Supervised Clinical Education IV
• DPT 798 - Directed Research (3 credits)

*Course Fee

Degree Requirements

1. Satisfactory completion of the 112 credits of the Physical Therapy program including the required period of clinical education with a grade point average of 3.00 or higher on a scale of 4.00.

2. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

3. Receive a grade of B- or above in all required physical therapy courses. Students who do not maintain a 3.00 average or who receive any grade less than a B- in any course at the end of the semester will be notified in writing and placed on probation at that time. A second grade of C+ or lower received in any course in the ensuing semester or failure to restore the cumulative average to 3.00 or above during the ensuing semester will bring about separation from the program. The student’s status in the program will be determined the Chair/Director on the recommendation of the Academic Review Committee (ARC) regarding the student’s separation or action plan for remediation.

4. The student will not progress in the program if any of the following occur:
   1. An earned F in any didactic course. This results in immediate separation without the option for reapplication.
   2. Failure of a third attempt of any clinical competency check-off with the exception of the final practical exam.
   3. A failure of a final practical exam (different than the competency check-off).
   4. A grade of C+ or below in more than one course in any semester.
   5. Inability to rectify probationary status within the time frame allotted by the ARC.
   6. A student on probation whose actions warrant probation in another category (academic, professional behavior, clinical) may also be separated.

5. A student may register for a Supervised Clinical Education course only two times if the option to reapply is approved by the ARC and a recommendation is made to the department chair/director. This option is only available to students who have failed a clinical rotation and have been separated from the program. This option is not available to students failing didactic course work. A student who is registered for the same course twice and has withdrawn or received a Fail is ineligible for readmission unless otherwise approved by the ARC, Department Chair, and Graduate Dean.

6. The students must follow the proposed curriculum in the specified time frames unless otherwise approved by the ARC, Department Chair, and Graduate Dean.
7. Credit by Challenge Examination: Graduate courses in the Department of Physical Therapy may not be challenged for credit.

8. The program must be completed within six years from the date of matriculation. The chair/director will evaluate potential exceptions.

9. In addition to the course requirements, the student must satisfactorily prepare a written document and oral presentation of a final research project, professional paper, or case report. The presentation will satisfy the requirements for a final capstone experience and will be open to the public.

10. Students must be in good standing with the Department of Physical Therapy and cannot be on a probations status at the time of graduation. Policies related to student probation, separation, and academic progress as stated in the current physical Therapy Student Manual are in compliance with the Graduate College.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully present his/her final research project, professional paper, or case report by the posted deadline. The presentation must be advertised and is open to the public.

3. The student must electronically submit a pdf copy of his/her approved, properly formatted thesis, doctoral project, or dissertation to the Graduate College for format check. Once approved, the student will submit the approved electronic version to ProQuest by the posted deadline. Deadlines can be found here.

DPT 710 - Selected Topics in Physical Therapy Credits 1
Forum to disseminate information to students on current and professional issues in physical therapy. Prerequisites: Graduate standing in physical therapy.

DPT 711 - Medical Terminology Credits 1
Introduction to medical terminology for the healthcare professional. Students expand their medical vocabulary via immersion in medical content and subjects from a broad spectrum of body systems. Prerequisites: Graduate standing in physical therapy.

DPT 712 - Functional Training and Acute Care Credits 4
Performance and application of positioning skills, transfers techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned materials into therapy interventions. Clinical reasoning skills in assessment, treatment design and intervention, goal development and discharge planning for patients in the acute hospital environment. Prerequisites: Graduate standing in Physical Therapy. DPT 744, 745, 730. Corequisite DPT 735L.

DPT 720 - Professional Development III Credits 2
Development of skills to accurately, sensitively and assertively communicate with patients, families, and colleagues. Principles of written and oral communication, and career advancement. Professional issues including state and local laws, standards of practice, code of ethics, quality assessment and quality assurance. Emphasis on self-reflection and personal/professional growth. Same as: No Prerequisites: Graduate standing in physical therapy.

DPT 721 - Advanced Topics in Physical Therapy Credits 1
Through in-class and web-assisted instruction, independent study, and mentored project development, prepares students for a variety of clinical competencies including health promotion/wellness, evaluation of alternative and complementary approaches, rural health, and other advanced aspects of clinical practice, ethics, and professional conduct related to physical therapy. Prerequisites: DPT 710

DPT 722 - Issues in Rural Health Credits 1
Unique needs of frontier/rural and underserved populations addressed, emphasizing the eclectic nature of practice in these areas, the importance of networking with other disciplines, and special considerations of these populations including functional rehabilitation, time management, travel, emergencies, and involvement of families in treatment. Prerequisites: Graduate standing in physical therapy.

DPT 726 - Evidenced-Based Practice in Physical Therapy I Credits 1
Designed to provide the student with knowledge and hands-on experience in skills required to engage evidence-based clinical practice of physical therapy. Students will learn how to write answerable questions, search the literature, and critically analyze evidence for application in clinical practice. Prerequisites: Graduate standing in Physical Therapy.

DPT 727 - Evidence-Based Practice in Physical Therapy Credits 1
Knowledge and practice skills required to engage in evidence-based clinical practice of physical therapy. Refine communication and critical appraise/analysis/synthesis skills in regard to research studies. Grading: Letter Grade

DPT 730 - Foundations of Observation and Assessment Credits 2
Basic patient assessment skills with introduction to posture and gait evaluation through observation. Patient history and review of the medical record. Documentation in S.O.A.P. Note and functional outcome formats. Assessment skills emphasized include: anthropometric measures, reflex and sensation testing, goniometry, manual muscle testing, vital signs, and surface palpation. Prerequisites: Graduate standing in physical therapy. Corequisite DPT 730L.

DPT 730L - Foundations of Observation and Assessment Lab Credits 2
Lab of basic patient assessment skills including posture, gait evaluation, anthropometric measures, reflex and sensation testing, goniometry, manual muscle testing, vital signs, and surface palpation. Patient history and review of medical records, documentation in SOAP format, and functional outcome formats. Prerequisites: Graduate standing in Physical Therapy. Corequisite DPT 730

DPT 732 - Therapeutic Exercise Credits 2
Holistic approach to evaluation and management of patients with various orthopaedic pathologies and other related movement dysfunction. Emphasis placed on theoretical basis of specific exercise physiology, therapeutic exercise and functional training skills interrelated with clinical decision-making methodology. Rationale for implementation of treatments with safety awareness and proper body mechanics. Prerequisites: DPT 730, DPT 730L; DPT 741 ; DPT 744 DPT 744L; DPT 745 DPT 745L. Corequisite DPT 732L.

DPT 732L - Therapeutic Exercise Lab Credits 1
Laboratory sessions to practice the evaluation and management of patients (and patient scenarios) with various orthopaedic pathologies and other related movement dysfunctions. Emphasis on exercise prescription and demonstration, as well as progression. Prerequisites: DPT 730, DPT 730L; DPT 741 ; DPT 744 DPT 744L; DPT 745 DPT 745L. Corequisite DPT 732.

DPT 735 - Functional Training and Acute Care Credits 4
Performance and application of positioning skills, transfers techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned materials into therapy interventions. Clinical reasoning skills in assessment, treatment design and intervention, goal development and discharge planning for patients in the acute hospital environment. Prerequisites: Graduate standing in Physical Therapy. DPT 744, 745, 730. Corequisite DPT 735L.

DPT 735L - Functional Training and Acute Care Lab Credits 1
Hands on performance and application of positioning skills, transfer techniques, and assistive devices. Advancement to clinical decision-making skills and incorporation of learned materials into therapy interventions. Clinical reasoning skills in assessment, treatment design
and intervention, goal development and discharge planning for patients in the acute hospital environment. Prerequisites: Graduate standing in Physical Therapy. DPT 744, 745, 730. Corequisite DPT 735

DPT 740 - Movement Science Credits 2
This course will introduce students to principles and theories in movement science. Students will be introduced to concepts related to motor control, motor development, and motor learning. Students will also apply these principles to the clinical practice of physical therapy and to observe and assess related phenomena in patients. Prerequisites: Graduate standing in physical therapy.

DPT 741 - Orthopaedic Principles Credits 3
Principles of orthopaedic physical therapy including biomechanics, applied anatomy, and osteokinematic andarthrokinematic concepts examined. Musculoskeletal system investigated from histological, structural, and functional perspectives. Prerequisites: Graduate standing in physical therapy.

DPT 742 - Clinical and Pathological Physiology Credits 5
Fundamentals of physiology and pathology related to diseases causing abnormal movement patterns or capabilities. Processes and diseases most frequently encountered in physical therapy practice emphasized. Prerequisites: Graduate standing in physical therapy.

DPT 744 - Gross Anatomy I Credits 2
Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the trunk and upper extremity, structural identification and function of the spine, heart, lungs, abdominopelvic organs, circulatory and sensory systems. Emphasis on relevance of gross anatomy to physical therapy practice. Involves both lecture and laboratory dissection that will cover the upper half of the body. Prerequisites: Graduate standing in Physical Therapy. Corequisite DPT 744L

DPT 744L - Gross Human Anatomy Lab I Credits 1
Gross human anatomy cadaver lab with supervised dissection and exploration of muscle, tendon, ligament and nerve innervation of the trunk and upper extremity, structural identification and function of the spine, heart, lungs, abdominopelvic organs, circulatory and sensory systems. Corequisite DPT 744 - Gross Anatomy I

DPT 745 - Gross Anatomy II Credits 2
Study of gross human anatomy as it applies to physical therapy. Materials to be covered include: muscle, tendon, ligament and nerve innervation of the head, neck, and lower extremity, structural identification and function of the corresponding circulatory and sensory systems. Prerequisites: DPT 744 and DPT 744L Corequisite DPT 745L

DPT 745L - Gross Human Anatomy Lab II Credits 1
Gross human anatomy cadaver lab with supervised dissection and exploration of muscle, tendon, ligament and nerve innervation of the head, neck, and lower extremity, structural identification and function of the corresponding circulatory and sensory systems. Prerequisites: DPT 744 and DPT 744L Corequisite DPT 745L

DPT 746 - Neuroanatomy Credits 3
High level immersion into the anatomy of the nervous system, emphasizing structure and functional relationships. Coursework will also relate the structural relationships of the central and peripheral nervous systems to brain dysfunction and pathology. Prerequisites: Graduate standing in physical therapy. Corequisite DPT 746L

DPT 746L - Neuroanatomy Lab Credits 1
Human cadaveric dissection of the central nervous system through a series of weekly laboratory experiences with an emphasis on its three-dimensional structure. Prerequisites: Graduate standing in Physical Therapy. Corequisite DPT 746

DPT 747 - Geriatric Examination and Intervention Credits 1
Examination, evaluation, plan of intervention, outcomes, patient education, and health promotion as applied to the geriatric client. Issues include factors affecting normal aging, pathological aging, common pathologies associated with aging, quality of life, successful aging, care settings, reimbursement, and public policy. Prerequisites: Graduate standing in physical therapy.

DPT 748 - Pharmacology Credits 2
Actions and effects of pharmaceutical agents commonly encountered in physical therapy clinical practice. Prerequisites: Graduate standing in Physical Therapy.

DPT 749 - Applied Exercise Physiology Credits 2
Review of systems responsible for the generation of energy. Overview of the physiologic responses of the human body to acute bouts of exercise and how training leads to chronic adaptation of selected systems. Course content focuses on principles of exercise, role of nutrients in body metabolism, human development and performances. Prerequisites: Graduate standing in physical therapy. Corequisite: DPT 749L - Applied Exercise Physiology Lab

DPT 750 - Prosthetics and Orthotics Credits 2
Evaluation of medical, surgical and prosthetic and rehabilitation management of amputations. Discussion of design, fabrication and fitting of prosthetic devices as well as general orthotic principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. Prerequisites: Graduate standing in Physical Therapy. Corequisite: DPT 750L

DPT 750L - Prosthetics and Orthotics Lab Credits 1
Application of medical, surgical and prosthetic and rehabilitation management of amputations. Design, fabrication and fitting of prosthetic devices as well as general orthotic principles examined. Basic clinical problem solving skills integrated in the context of prosthetic and orthotic management of patients. Prerequisites: Graduate standing in Physical Therapy. Corequisite: DPT 750

DPT 751 - Women's Health in Physical Therapy Credits 2
Overview of the anatomical, physiological, nutritional, psychological, and sociological influences throughout the woman’s life span including: adolescence, the reproductive years, the middle years, the older age. Discussion of physical therapy management of musculoskeletal, integumentary, cardiopulmonary, and visceral pathologies common to women. Prerequisites: Graduate standing in physical therapy.

DPT 752 - Physical Agents and Electrophysiology Credits 2
Biological processes of injury and repair, clinical application of soft tissue techniques, thermal agents, intermittent compression, continuous motion, electrical stimulation, and mechanical traction. Principles of electrophysics and neurophysiology as they pertain to the use of therapeutic electrical stimulation. Advancement to clinical decision-making skills in physical application. Grading: Letter grade Prerequisites: Graduate standing in Physical Therapy. DPT 742, 730, 732. Corequisite: DPT 752L

DPT 752L - Physical Agents and Electrophysiology Lab Credits 1
Hands on performance and clinical application of soft tissue techniques, thermal agents, intermittent compression, continuous motion, electrical stimulation, mechanical traction, therapeutic electrical stimulation. Prerequisites: Graduate standing in Physical Therapy. DPT 742, 730, 732. Corequisite: DPT 752

DPT 753 - Electrotherapy Credits 2
Principles of a electrophysics and neurophysiology as they pertain to the use of therapeutic electrical stimulation. Application techniques of various electrical stimulation devices also presented. Prerequisites: DPT 742, DPT 752, DPT 730, DPT 732.
DPT 754L - Orthopaedic Assessment in Physical Therapy Lab Credits 1
Evaluation and assessment of upper and lower extremity orthopaedic problems. Practical application of functional anatomy, biomechanics, and evaluative manual therapy skills used to differentially diagnose orthopaedic pathologies and disorders. Prerequisites: DPT 730L, DPT 741, DPT 744, DPT 744L, DPT 745, DPT 745L. Corequisite: DPT 754L

DPT 755 - Geriatric and Pediatric Rehabilitation Credits 3
Examination of factors affecting normal and pathologic systems from birth into aging. Issues include normal developmental sequences and common pathologies across the life span. Evaluation, wellness and leisure activities, and how basic rehabilitation procedures can be modified for the elderly. Prerequisites: Graduate standing in physical therapy.

DPT 756 - Neurophysiology Credits 4
High level immersion into the function of the human central and peripheral nervous systems based on current research and theory. Topics include normal human motor and sensory neurophysiology, cognitive and learning neurophysiology, neuropathophysiology, neuroplasticity, neurodiagnostics and neurologic treatment options. Prerequisites: DPT 746

DPT 757 - Wound Care Credits 2
Clinical practice of wound care including physiology of tissue healing, wound assessment tools, dressings and treatment approaches. Processes and diseases most frequently encountered in physical therapy practice specializing in wound care. Prerequisites: DPT 742, DPT 752

DPT 758 - Diagnostic Testing and Imaging Credits 2
Presentation of diagnostic tests used by disciplines and specialties within and outside of the profession of physical therapy. Discussion of blood studies, nuclear medicine studies, and radiologic/X-ray studies. Interpretation of test results as it applies to physical therapy evaluation, intervention planning and treatment. Prerequisites: Graduate standing in physical therapy.

DPT 759 - Pediatric Rehabilitation Credits 2
Provides foundational knowledge of development (typical and atypical) and an overview of pediatric physical therapy practice for children with atypical development. Presents examination, evaluation, and development of physical therapy plans of care for children with various disabilities within the frameworks of family-centered care and disablement/enablement models. Prerequisites: Graduate standing in Physical Therapy. Corequisite: DPT 759L

DPT 759L - Pediatric Rehabilitation Laboratory Experience Credits 1
Focuses on application of developmental concepts and an overview of pediatric physical therapy practice for children with atypical development. Provides students with opportunities to observe/engage in examination, evaluation, and development of physical therapy plans of care for children with various disabilities within the frameworks of family-centered care and enablement models. Prerequisites: Graduate standing in Physical Therapy. Corequisite: DPT 759

DPT 760 - Supervised Clinical Education I Credits 3
The first clinical affiliation is a supervised full-time extended clinical learning experience six weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in learning in order to develop introductory clinical competence in the delivery of services to persons with movement dysfunction. Prerequisites: Successful completion of all course work in the first year of the graduate physical therapy program.

DPT 761 - Supervised Clinical Education II Credits 5
The second clinical affiliation is a supervised, full-time extended clinical learning experience 11 weeks in duration. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisites: DPT 761

DPT 762 - Supervised Clinical Education III Credits 5
The third clinical affiliation is ten and one-half weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experimental learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisites: DPT 762

DPT 763 - Supervised Clinical Education IV Credits 6
The fourth clinical affiliation is twelve weeks and is a supervised full-time extended clinical learning experience. The primary purpose is to provide students with the opportunity to actively engage in experiential learning in order to advance clinical competence in the delivery of services to persons with movement dysfunction. Prerequisites: DPT 763

DPT 770L - Cardiopulmonary Rehabilitation Lab Credits 1
Lab of basic patient skills including assessment of vital signs, breathing patterns, heart sounds, ECG interpretation, pulmonary function testing, blood gases, chest wall mobility, cough and sputum, ventilation, performance of bronchial drainage, prescribe exercises for patient with compromised cardiopulmonary function. Corequisite: DPT 770

DPT 772 - Physical Therapy Administration Credits 2
General principles of organizations and administration that impact the ethical and legal aspects of physical therapy practice. Topics include budget development, cost accounting, supervision, communication skills, evaluative techniques, and methods of management and quality assurance. Prerequisites: Graduate standing in physical therapy.

DPT 774 - Psychosocial Aspects of Physical Therapy Credits 2
Social and psychological issues which arise during illness examined and discussed in an open class discussion format. Emphasis on self-awareness as well as awareness of others with respect to cultural differences, religious beliefs, addictions, and coping strategies during stress. Prerequisites: Graduate standing in physical therapy.

DPT 780 - Balance and Vestibular Rehabilitation Credits 2
This course will introduce students to principles and theories of rehabilitation for the patient with balance dysfunction. There will be emphasis on sound clinical reasoning and assessment of balance impairment and disability. Students will be exposed to theoretical applications of different treatment modalities in balance and vestibular rehabilitation. Prerequisites: Enrollment in professional DPT curriculum.

DPT 785 - Orthopaedic Rehabilitation Credits 2
Manual therapy and therapeutic exercise techniques for the extremities with emphasis on integrating these techniques into treatment regimes for specific orthopaedic pathologies/disorders. Includes pathogenesis, clinical presentation, medical/surgical management and rehabilitation. Students will integrate, and enhance knowledge from previous course work as it pertains to appropriate entry-level application. Prerequisites: DPT 732, DPT 741, DPT 754 Corequisite: DPT 785L
DPT 785L - Orthopaedic Rehabilitation Lab
Credits 1
Orthopaedic Rehabilitation lab with supervised integration of manual therapy and therapeutic exercise techniques for the extremities. Focus will be on developing and providing treatment regimes for specific orthopaedic pathologies/disorders. Students will refine skills from previous course work as it pertains to appropriate entry-level application. Prerequisites: DPT 732, DPT 741, DPT 754. Corequisite: DPT 785

DPT 786 - Neurological Rehabilitation
Credits 3
Course fosters clinical reasoning and critical analysis skills across elements of patient client management for individuals with neurologically-based movement disorders. Students are exposed to theory and movement science as related to clinical reasoning. Students are expected to incorporate professional behavior, scientific and clinical knowledge and critical analysis to clinical applications. Prerequisites: DPT 730, DPT 732, DPT 744, DPT 745, DPT 746, DPT 756. Corequisite: DPT 786L

DPT 786L - Neurologic Rehabilitation Laboratory Experience
Credits 1
Course emphasizes hands-on skill development, clinical reasoning, and critical analysis skills for all elements of patient-client management for individuals with neurologically-based movement disorders across the lifespan. Students are expected to incorporate professional behavior, scientific and clinical knowledge, critical analysis and competent skill performance in laboratory and practical skill application. Corequisite: DPT 786

DPT 787 - Integrated Rehabilitation
Credits 2
Assessment and treatment of advanced orthopedics, advanced neurological, and spinal cord injured patients utilizing comprehensive techniques for spinal cord injury (SCI), orthopedics, and neurological treatment. Through dynamic patient case problems, students evaluate, plan, and implement course of treatment. Prerequisites: Graduate standing in Physical Therapy and DPT 785 and DPT 786. Corequisite: DPT 787L

DPT 787L - Integrated Rehabilitation Lab
Credits 1
Hands on assessment and treatment of advanced orthopedics, advanced neurological, and spinal cord injured patients utilizing comprehensive techniques for spinal cord injury (SCI), orthopedics, and neurological treatment. Through dynamic patient case problems, students evaluate, plan, and implement a course of treatment. Prerequisites: Graduate standing in Physical Therapy and DPT 785 and DPT 786. Corequisite: DPT 787

DPT 788 - Spine Examination and Treatment
Credits 2
Spine examination including biomechanics, observation, range of motion, muscle strength, joint play and special tests. Inclusion of examination schema, clinical reasoning skills and differential diagnosis of commonly seen spine pathology. Emphasis on hands-on examination, assessment, and treatment including manual therapy, spinal mobilization and spinal manipulation skills. Prerequisites: Graduate standing in physical therapy. Corequisite: DPT 788L

DPT 788L - Spine Examination and Intervention Lab
Credits 1
Lab sessions focusing on hands-on examination, assessment, and treatment of spine dysfunction, including manual therapy, spinal mobilization and spinal manipulation skills. Prerequisites: Graduate standing in Physical Therapy or consent of instructor. Corequisite: DPT 788

DPT 790 - Clinical Research in Physical Therapy
Credits 3
Introduction to principles and concepts of clinical research in physical therapy. Covers development of the research question, measurement issues, statistical analysis, literature review, and writing of results. Prerequisites: Graduate standing in physical therapy.

DPT 791 - Applied Research Statistics
Credits 3
Review of foundations, concepts of measurement, and design in clinical research. Emphasis on hands-on data analysis of clinically relevant physical therapy research designs including descriptive statistics, statistical inference, analysis of differences, and analysis of relationships. Prerequisites: Graduate standing in physical therapy.

DPT 792 - Seminar
Credits 1
Preparation and presentation of seminars on topics of current interest in physical therapy and rehabilitation. Topic changes by semester and by course instructor; see class schedule for details. Prerequisites: Enrollment in professional DPT curriculum.

DPT 795 - Independent Study
Credits 1 – 6
Students pursue a topic related to physical therapy beyond that covered in the graduate curriculum. Satisfactory completion accomplished through individualized, self-directed study. Topics based on student preference and faculty approval. Faculty and student jointly determine goals, objective and evaluation methods. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing in physical therapy.

DPT 798 - Directed Research
Credits 1 – 6
Critical inquiry by participating in new or ongoing research with faculty who serve as project advisors. Students summarize research by a written report and present each project orally to the faculty and area clinicians. Notes: May be repeated to a maximum of six credits. Prerequisites: DPT 790

PTS 703 - Measurement Theory and Outcomes in Rehabilitation
Credits 3
Theoretical and practical foundations for measurement in rehabilitation research. Concepts include importance and uses of outcomes research to measure body structures and functions, functional behaviors and activities, participation and quality of life, and consumer satisfaction. Challenges of designing and measuring outcomes in diverse populations across the lifespan will also be considered. Prerequisites: Admission to PhD in Interdisciplinary Health Sciences program.

PTS 713 - Genomic and Regenerative Rehabilitation Concepts
Credits 3
Current perspectives on the emerging impact of regenerative medicine and genomic technologies that have potential to drive progress in the prevention and treatment of acute and chronic condition resulting from injury, disease or aging.

PTS 714 - Neuroplasticity
Credits 3
Comprehensive overview of the neurobiological mechanisms and treatment principles of neuroplasticity and how to integrate and apply them to clinical practice.

PTS 715 - Pathobiomechanics
Credits 3
The course is designed to introduce the concepts of biomechanical research regarding musculoskeletal pathologies, including kinematics, kinetics, and electromyography at the whole body and joint level. How alterations of connective tissue and muscle mechanics contribute to musculoskeletal pathologies is also discussed.

PTS 744 - Gross Human Anatomy
Credits 3
Gross anatomy studied regionally stressing relationships of major structures, organs, vessels and nerves. Prosected human cadaver observation by students included in laboratory session (PTS 744L). All major areas of the body covered. Reference to the relationship of anatomical structures to pathology, traumatic injury and medicine stressed. Prerequisites: Undergraduate Anatomy, Physiology or Biology lab course. Corequisite PTS 744L

PTS 744L - Gross Human Anatomy Lab
Credits 1
Gross human anatomy cadaver lab with supervised examination and exploration of prossected human cadavers. All major areas of the body are covered. References to the relationship of anatomical structures to pathology, traumatic injury and medicine stressed. Prerequisites: Undergraduate Anatomy, Physiology or Biology lab course or equivalent. Corequisite PTS 744

PTS 747 - Human Neuroanatomy
Credits 3
High level immersion, including cadaveric prospection, into the anatomy of the central nervous system, emphasizing structure and functional relationships. Coursework will also relate these structural relationships to brain dysfunction and pathology. Prerequisites: Graduate standing.
Brain Health
Jefferson Kinney, Ph.D., Chair
Janet Dufek, Ph.D., Graduate Coordinator

Program Information
Department Website

Plans
Occupational Therapy Doctorate
Post-Professional Occupational Therapy Doctorate

Post-Professional Occupational Therapy Doctorate

Plan Description
The mission of the UNLV post-professional OTD Program in Occupational Therapy is to provide practicing occupational therapists with advanced knowledge and skills so that they can advance in their respective careers to positions in leadership, advanced clinical practice, or higher education. The proposed program will provide an evidence-based and sequenced curriculum that will enable graduates to transition into leadership, advanced clinical practice, and/or higher education positions.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Admission Requirements:
1. A degree in occupational therapy from an entry-level educational program accredited by the Accreditation Council for Occupational Therapy Education (ACOTE)
2. Initially certified by the National Board for Certification in Occupational Therapy (NBCOT)
3. An earned Master’s degree from an accredited academic institution
4. Current licensure as an occupational therapist (OTR)
5. Minimum overall grade point average of 3.00 (4.00=A) for the last two years of your academic coursework (60 semester hours).

Application Process:
1. Students must complete a UNLV Graduate College Application via the Grad Rebel Gateway portal.
2. Submit a nonrefundable admission application fee, payable check, money order, or online by credit card of $60 ($95 if you are an international student) to the Board of Regents, UNLV. *Note: Applications and materials will not be processed until the application fee is received. Applicants to any UNLV graduate program must pay the admission application evaluation fee for each application filed. Denied applicants, who later seek admission to the same or other UNLV degree program, are required to pay an additional application fee.

3. Submit official transcripts from all postsecondary institutions attended, showing all degrees and coursework, the dates awarded, and grades received.
   *Note: Only transcripts sent directly from the institution and delivered unopened to the UNLV Graduate College are considered official. Failure to disclose all course work and/or degrees awarded will result in rescission of admission.

4. Submit the following additional admission materials required by the Post-Professional Occupational Therapy Doctorate Program (PP-OTD) degree program:
   1. Current curriculum vitae or resume.
   2. Statement of purpose addressing the applicant’s objectives for his/her doctoral education, including area of clinical expertise, and potential areas of research focus. Statement should be 2-3 pages in length.
   3. Copy of initial certification from the National Board for Certification in Occupational Therapy (NBCOT) or, if international student, other national certification agency.
   4. Copy of current occupational therapy license within a jurisdiction in the United States (if applicable).
   5. Three letters of recommendation attesting to your ability to successfully engage in and complete doctoral level work (e.g., critical thinking, communication skills, ability to use therapy literature to guide practice), capacity to be a leader in the occupational therapy profession, and ability to work collaboratively to achieve professional outcomes. The letters must be signed and dated, and letterhead should be used when available. References may be from a supervisor, a colleague, or professor; one of these letters must be from an occupational therapist.
   6. For International Students, submit:
      1. Copy of initial certification from the national certification agency/board in the country received.
      2. Proof of English Proficiency if English is not the applicant’s first language.
3. Transcripts from academic institutions outside the U.S. may require a foreign credential evaluation.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

*Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.*

**Plan Requirements**

Total Credits Required: 36

**Course Requirements**

**Summer Semester 1st Year Courses** - Credits: 6
- OCT 701 - Advanced Clinical Practice in Occupational Therapy
- OCT 702 - Leadership and Advocacy in Occupational Therapy Practice

**Fall Semester 1st Year Courses** - Credits: 6
- OCT 703 - Evidence-Based Practice in Occupational Therapy
- OCT 704 - Teaching Adult Learners/Pedagogy

**Spring Semester 1st Year Courses** - Credits: 6
- OCT 705 - Distance Education and Telehealth
- OCT 706 - Social Determinants of Health

**Summer Semester 2nd Year Courses** - Credits: 6
- OCT 707 - Evidence Based Education
- OCT 708 - Issues in Higher Education and Healthcare

**Fall Semester 2nd Year Courses** - Credits: 6
- OCT 709 - Occupational Therapy Capstone I
- OCT 710 - Program Development and Evaluation Program

**Spring Semester 2nd Year Courses** - Credits: 6
- OCT 711 - Capstone II
- OCT 712 - Innovations in Occupational Therapy Practice

**Degree Requirements**

1. Capstone I (3 cr) and Capstone II (3 cr).
2. Completion of the 36 credit program with a minimum of GPA of 3.0 throughout the program.

**Plan Graduation Requirements**

1. Candidates must maintain a minimum GPA of 3.0 throughout the 36 credit program.

2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

3. The student must submit and successfully present his/her final research project, professional paper, or case report by the posted deadline. The presentation must be advertised and is open to the public.

4. The student must electronically submit a pdf copy of his/her approved, properly formatted thesis, doctoral project, or dissertation to the Graduate College for format check.

5. Once approved, the student will submit the approved electronic version to ProQuest by the posted deadline. Deadlines can be found here.
School of Dental Medicine

The UNLV School of Dental Medicine (SDM), which accepted its inaugural class in August of 2002, has been designed to serve our local community and the state of Nevada in oral health care, health services, research and scholarly activities. This program awards a Doctor of Dental Medicine (D.M.D.). The UNLV SDM education program is a four year academic program consisting of eleven (11) full semesters, and approximately 5,000 contact hours. In 2017, SDM began accepting students in the program for graduates of non-U.S. accredited dental schools with an award of Doctor of Dental Surgery (D.D.S.) degree. This degree is a two-year (6-semester) advanced standing program for dentists who graduated from non-U.S. accredited dental schools. It enables dentists who were trained in non-U.S. accredited institutions to gain the skills and knowledge necessary to practice in the United States. Education of dental students will be accomplished through a competency based curriculum with a special emphasis on biomedical sciences, professional studies and an innovative vertically integrated team approach for clinical instruction and delivery of patient care. The School of Dental Medicine is recruiting and employing a diverse and distinguished faculty to facilitate the program. The competency-based education program has at its core a student and patient centered environment designed to maximize learning and patient care delivery. Beginning dentists will be exposed to in-depth studies of biological and clinical sciences as well as biomedical and bio-ethical disciplines. Students will encounter a broad spectrum of clinical experiences to prepare them for entry into the profession. These experiences will begin in year one of the curriculum, and clinical responsibilities will expand in scope and depth throughout the four years. During year four, students will have the opportunity to select placement in a variety of clinically supervised community settings. They will also have extensive exposure to business and financial management designed to meet the challenges of dental practice. Furthermore, they will be introduced to principles of research, will have an opportunity to conduct independent research and will be encouraged to pursue scholarly activities with the possibility of creating a career in academic dentistry. Training will occur in state of the art facilities designed to achieve the goals of the dental academic program. Today’s dental professional needs a learning environment that offers interaction with other medical professionals and facilitates diagnosis and treatment to improve the patient’s overall health.

The dental school is adopting this new reality and keeping it at the forefront as it designs the teaching facility at the UNLV Shadow Lane campus. The building is part of a regional campus that is expected to house the UNLV Academic Health Center, the UNLV School of Medicine, School of Nursing, and other UNLV Health Professions. Students will have access to the latest technology with other health care professionals in diagnosing disease and treating patients. By the time of graduation, students will be competent and confident to begin a rewarding career as a provider of comprehensive oral health care.

William D. Davenport, Jr., Ph.D., Interim Dean, School of Dental Medicine
Chair, Department of Biomedical Sciences
Cappelli, David Professor; B.S., University of Pittsburgh, Pittsburgh, PA; M.P.H., University of Pittsburgh, Pittsburgh, PA; D.M.D., University of Pittsburgh, Pittsburgh, PA; Certificate Dental Public Health, University of Texas Health Sciences Center, San Antonio, TX; Ph.D., University of Texas Health Sciences Center, Houston, TX;

Associate Dean for Clinical Services
Thiriot, Rick Assistant Professor-in-Residence; B.S., University of Nevada, Las Vegas; D.D.S., University of the Pacific School of Dentistry.

Assistant Dean for Clinical Services
Reinke, Robin Associate Professor-in-Residence; B.S., University of Puget Sound; D.D.S., University of Washington School of Dentistry; M.P.A., Keller Business School of Management of Devry University.

Associate Dean for Admissions and Student Affairs
Ancajas, Christine - Assistant Graduate Faculty B.A., California State University; D.D.S., Northwestern University Dental School.

Associate Dean for Student Services
Everett, Rhonda - Full Graduate Faculty Assistant Professor-in-Residence; B.A., University of California; D.D.S., University of Nevada, Las Vegas.

Senior Executive Director of Professionalism, Inclusion, and Student Finance
Kypuros, Christopher B.A., University of Nevada, Las Vegas; M.A., St. Mary’s University, Ph.D., University of Nevada, Las Vegas.

Assistant Dean for Outreach and Engagement
Skelton, Judith - Full Graduate Faculty Professor; B.S., University of Louisville; M.E.D., University of Florida; Ph.D., University of Florida.

Associate Dean for Research
Ebersole, Jeffrey Professor; B.A Temple University, Ph.D., University of Pittsburgh.

Graduate Faculty
Abbatangelo, Tina Visiting Assistant Professor and Director of SDM on Main Campus Clinic; B.S., University of Nevada, Las Vegas; D.D.S., University of Iowa College of Dentistry.

Al-Talib, Tanya Associate Professor-in-Residence Clinical Sciences; D.D.S., Louisiana State University School of Dentistry; Certificate of Advanced Education General Dentistry, Louisiana State University School of Dentistry; M.S., University of North Carolina School of Dentistry; Certificate in Orthodontics, Chapel Hill School of Dentistry.

Baca, Kristen Assistant Professor-in-Residence of Clinical Sciences; B.S., University of Nevada, Las Vegas; D.M.D., University of Nevada, Las Vegas.

Barborka, Benjamin Assistant Professor-in-Residence, DDS; University of Nevada, Las Vegas; Certificate in Endodontics, Texas A&M College of Dentistry.

Braun, Gary Visiting Associate Professor-in-Residence, General Practice Residency Program; A.A., Wesley College; B.A., Drew University; D.M.D., University of Pennsylvania School of Dental Medicine; M.S. University of Texas.

Britton, Fiona Visiting Associate Professor and Vice Chair of Biomedical Sciences BSc, Ulster University, Northern Ireland; PhD, Ulster University, Northern Ireland

Capurro, Antonina Visiting Assistant Professor and State Dental Director; B.S., University of Nevada, Las Vegas; D.M.D., University of Nevada, Las Vegas; M.P.H., University of Nevada, Las Vegas; M.B.A., University of Nevada, Las Vegas.

Chrzan, Brian Associate Professor; B.S., Utica College of Syracuse University; D.D.S, School of Dental Medicine State University of New York at Buffalo; Ph.D., School of Dental Medicine State University of New York at Buffalo.

Chung, Eve Visiting Assistant Professor; B.S., University of Nevada, Reno; D.M.D., University of Nevada, Las Vegas.

Danforth, Robert Professor-in-Residence; D.D.S., Loma Linda University.

Davis, Kerry Visiting Associate Professor; BS, Brigham Young University, Provo UT; DDS University of the Pacific School of Dentistry, San Francisco

Demopoulos, Christina Associate Professor; Diplomate-American Board of Dental Public Health; B.S., University of Nevada, Las Vegas; D.D.S., University of Southern California School of Dentistry; M.P.H., University of Nevada, Las Vegas.

Dounis, Georgia Professor of Clinical Sciences; D.D.S., Marquette University, School of Dentistry; M.S., Marquette University School of Dentistry.

Farfel, Elena Assistant Professor in Residence of Clinical Sciences; B.A., University of Colorado; D.M.D., University of Nevada, Las Vegas; Fellowship, International Academy for Dental-Facial Esthetics.

Faulkner, Davin Assistant Professor-in-Residence; B.S., Brigham Young University; D.M.D., University of Nevada, Las Vegas.

Fox, Gerald Visiting Assistant Professor; B.S., Brooklyn College; D.D.S., Temple University School of Dentistry.

Gallo, John Associate Professor-in-Residence; B.S., University of Arizona-Tucson; D.D.S., Nova Southeastern University.

Gewelber, Civon Assistant Professor-in-Residence; B.A., Fordham University; D.M.D., University of the Pacific School of Dentistry.

Hamilton, Richard Visiting Assistant Professor; M.S. The Ohio State University; D.D.S. College of Dentistry, The Ohio State University.

Haskin, Christine Professor in Residence; B.A., University of Texas at Austin; M.S., Southwest Texas State University; D.D.S., University of Texas; Ph.D., University of Texas.

Hassan, Neamat Visiting Associate Professor; B.D.S., Mansoura University, Egypt; D.S.S., University of Vienna, Austria; MDSc, Dundee University, Scotland, UK; Ph.D., Niigata University, Japan.

Hatley, Charles Visiting Associate Professor; B.A. Eastern Kentucky University; Richmond, KY; D.M.D., University of Kentucky College of Dentistry, Lexington, KY; Advanced Education Program in Prosthodontics, Fort Gordon, GA.

Herschaft, Edward - Full Graduate Faculty Professor; B.A., Queens College of the City University of New York; D.D.S., West Virginia University School of Dentistry; M.A., University of New Orleans.

Hillyard, Stanley - Full Graduate Faculty Professor; B.A., University of California, Riverside; Ph.D., University of California, Los Angeles.

Howard, Katherine - Full Graduate Faculty Associate Professor; B.S., Texas A & M University, Galveston; Ph.D., University of Texas, Austin.

Hurlbut, Bernard - Full Graduate Faculty Associate Professor-in-Residence; B.A., Arizona State University; D.D.S., Baylor College of Dentistry.

Ingel, Andrew Visiting Assistant Professor-in-Residence and Director of Continuing Education; B.S., Villanova University; M.S., Bryn Mawr College; D.M.D., University of Pittsburgh School of Dental Medicine.
Jones, Francis Associate Professor-in-Residence; B.A., California State University; D.D.S., Meharry Medical College; M.B.A., California State University

Joyner-Tucker, Arlene Associate Professor-in-Residence; B.S., North Carolina University; D.D.S., Howard University College of Dentistry; M.P.H., University of California, Los Angeles.

Kingsley, Karl - Full Graduate Faculty Professor; B.A., New Mexico State University; B.B.A., New Mexico State University; Ph.D., University of Nevada, Las Vegas; M.P.H., University of Nevada, Las Vegas.

Laux, Ronald Visiting Assistant Professor-in-Residence; B.A., Canisius College, Buffalo NY; D.D.S. Marquette University, Milwaukee, WI.

Leavitt, William Associate Professor-in-Residence; B.A., Brigham Young University; M.P.A., University of Southern California; D.D.S., University of the Pacific.

Lynch, Edward Visiting Professor; B.A. and B.DentSc, Trinity College, Dublin; Dental Surgery Fellowship, Royal College of Surgeons, Edinburgh; M.A. Trinity College, Dublin; Ph.D. University of London; Fellowship, International Academy for DentoFacial Esthetics; Fellowshop American Society for Dental Aesthetics.

Martin, Bob- Assistant Graduate Faculty Visiting Professor of Orthodontics; B.S., Bridgewater College; D.D.S., Medical College of Virginia.

Morgenstern, Jay Visiting Assistant Professor for Clinical Sciences; BS: 1980: Stony Brook University, Stony Brook, NY, DMD: 1983: Tufts University, Boston MA

Nelson, Stanley Professor; B.S., Albion College; D.D.S., University of Michigan School of Dentistry; M.S., University of Michigan School of Dentistry.

Neubauer, Michael Associate Professor-in-Residence; B.S., University of California; D.D.S., University of California; M.S., University of Iowa.

Nguyen, Linh Visiting Assistant Professor; M.S. of Public Health, University of Minnesota Twin Cities; Ph.D., University of Nevada, Las Vegas.

Ord, David Assistant Professor-in-Residence; B.S., Brigham Young University; D.D.S., University of Southern California.

Orr II, Daniel Professor-in-Residence and Maxillofacial Surgery; B.S., Brigham Young University; D.D.S., University of Southern California School of Dentistry; M.S., University of Utah School of Medicine, Department of Anesthesiology; Ph.D., Columbia Pacific University; J.D., William Howard Taft University School of Law; M.D., University of Health Sciences, Antigua School of Medicine.

Phipps, Flora Monique Associate Professor-in-Residence; B.S., Hampton University; D.D.S., Virginia Commonwealth University.

Polanski, Joshua Assistant Professor-in-Residence; B.A., Washington University in St. Louis; M.A., University of Iowa, Ph.D., University of Iowa.

Raz, Galya Visiting Assistant Professor; B.S., Biological Sciences, University of California, Davis; D.M.D. University of Nevada, Las Vegas; M.S. and Certificate in Periodontics, University of California, Los Angeles.


Rohani, Mahzarine Assistant Professor in Residence

Rosenbaum, George Visiting Assistant Professor; BS: 1972: University of Nevada, Las Vegas, DDS: 1976: Loyola School of Dentistry, Maywood, Illinois

Rothbart, Jonathan Associate Professor-in-Residence; A.B., Brandeis University; D.M.D., Boston University Goldman School of Graduate Dentistry.

Sanders IV, Owen Associate Professor-in-Residence; B.S., Brigham Young University, D.M.D., Temple University.

Sanders, R. Michael Professor and Interim Director Faculty Practice; D.M.D., College of Medicine and Dentistry; Ed.M., Rutgers University; M.P.H., Robert Woods Johnson Medical School.

Schoen, Richard Visiting Assistant Professor of Clinical Sciences; BA: 1967: University of California, Los Angeles, DDS: 1971: Loyola University, Chicago, IL

Seran, Clifford - Full Graduate Faculty S., Bucknell University; D.M.D., University of Pennsylvania.

Schoen, Richard Visiting Assistant Professor; B.A., University of California, Los Angeles; D.D.S., Loyola University.

Shan, Allen Visiting Assistant Professor; B.S., University of Nevada, Reno; D.M.D., University of Nevada, Reno.

Thompson, Valerie Assistant Professor; B.A., California Lutheran University, Thousand Oaks, CA; D.M.D., University of Nevada, Las Vegas.

Webberson, Michael Assistant Professor-in-Residence; B.S., University of Nevada, Las Vegas; D.D.S., Creighton University School of Dentistry.

Woo, Victoria Professor-in-Residence; D.D.S., University of Western Ontario.

Zhou, Wenlian Associate Professor; D.D.S., Beijing Medical University School of Stomatology General Dentistry; Ph.D., Peking University Health Science Center, School of Stomatology Orthodontics; D.M.D., University of Nevada, Las Vegas, School of Dental Medicine; M.P.H. University of Nevada, Las Vegas School of Community Health Services.

Ziada, Hassan Visiting Associate Professor for Clinical Science

Doctor of Philosophy - Oral Biology

Master Public Health - Dental Fast Tracks

Doctor of Dental Medicine (This program is accredited by: CODA. More information can be found at: unlv.edu/provost/vpaa/accreditation)

Doctor of Dental Surgery
Doctor of Philosophy - Oral Biology

Plan Description

The UNLV School of Dental Medicine, Advanced Education in Orthodontics and Dentofacial Orthopedics offers a 60-month combined Doctorate Degree and Certificate residency program. The class size is 2 residents per year and begins in July of each year. The program is designed to offer a broad spectrum of didactic, clinical, research, and teaching experience in the field of orthodontics and dentofacial orthopedics. The emphasis of this program is the development of researchers that will further the scientific advancement in scholarly research, foster innovation and creativity, and support investigations that will further the understanding of clinical practice in oral health.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to being accepted to the UNLV Graduate College, prospective students must meet the following criteria.

1. Must have passed Parts I and II, National Dental Board Examination.
2. Must have earned a DMD/DDS degree from a program in the US or Canada that is fully accredited by the Commission on Dental Accreditation.
3. Must be eligible for a Nevada state dental license and receive a full or limited dental license from the Nevada State Board of Dental Examiners prior to engaging in any clinical activity.
4. Application through the Postdoctoral Application Support Service (PASS) including specified letters of recommendations.
5. Background and criminal checks as required.
6. Medical history, immunizations and physicals as required.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 182

Course Requirements

Fall Semester 1st Year Courses - Credits: 32

- ORTH 8001 - Introduction to Orthodontics
- ORTH 8002 - Clinic Orthodontics
- ORTH 8512 - Biomechanical Principles
- ORTH 8602 - Diagnosis, Treatment Planning and Case Presentation
- PGDE 8402 - Biomedical Sciences Core I
- PGDE 8701 - PSC: Lit Review

Spring Semester 1st Year Courses - Credits: 33

- ORTH 8102 - Clinical Specialty Seminars I
- ORTH 8203 - Clinic Orthodontics
- ORTH 8513 - Growth and Development
- ORTH 8603 - Diagnosis & Treatment Plan
- ORTH 8803 - Literature Review/Journal Club
- PGDE 8312 - Independent Research I
- PGDE 8403 - Biomedical Sciences Core II
- PGDE 8503 - Interdisciplinary Diagnosis and Treatment Planning
- PGDE 8517 - TMD
- PGDE 8702 - Res Design
- PGDE 8703 - Research Methods II
- PGDE 8715 - PSC: Practice Management

Summer Semester 1st Year Courses - Credits: 23

- ORTH 8204 - Clinic Orthodontics
- ORTH 8515 - Orthognathic Surgery
- ORTH 8518 - Orthodontic Materials
- ORTH 8604 - Diagnosis & Treatment Plan
- ORTH 8804 - Literature Review/Journal Club
- ORTH 8910 - Craniofacial Anomalies
- PGDE 8313 - Independent Research II
- PGDE 8415 - Advanced Biomedical Sciences

Fall Semester 2nd Year Courses - Credits: 17

- ORTH 8103 - Clinical Specialty Seminars II
- ORTH 8205 - Clinic Orthodontics
- ORTH 8605 - Diagnosis, Treatment Planning and Case Presentation
- ORTH 8805 - Literature Review I
- PGDE 8314 - Independent Research III
Spring Semester 2nd Year Courses - Credits: 22
- ORTH 8104 - Clinical Specialty Seminars III
- ORTH 8206 - Clinic Orthodontics
- ORTH 8606 - Diagnosis, Treatment Plan and Case Presentation
- PGDE 8315 - Independent Research III

Summer Semester 2nd Year Courses - Credits: 25
- ORTH 8207 - Clinic Orthodontics
- ORTH 8607 - Diagnosis & Treatment Plan
- PGDE 8316 - Independent Research
- PGDE 8901 - Thesis

Fall Semester 3rd Year Courses - Credits: 6
ORTH 8208 – Clinic Orthodontics
PGDE 8317 – Independent Research VII

Spring Semester 3rd Year Courses - Credits: 6
ORTH 8208 – Clinic Orthodontics
PGDE 8318 – Independent Research VIII

Summer Semester 3rd Year Courses - Credits: 6
ORTH 8208 – Clinic Orthodontics
PGDE 8319 – Independent Research VIII

Fall Semester 4th Year Courses - Credits: 2
ORTH 8209 – Clinic Orthodontics
PGDE 8902 – Dissertation II

Spring Semester 4th Year Courses - Credits: 2
ORTH 8209 – Clinic Orthodontics
PGDE 8902 – Dissertation II

Summer Semester 4th Year Courses - Credits: 2
ORTH 8209 – Clinic Orthodontics
PGDE 8902 – Dissertation II

Fall Semester 5th Year Courses - Credits: 2
ORTH 8210 – Clinic Orthodontics
PGDE 8903 – Dissertation III

Spring Semester 5th Year Courses - Credits: 2
ORTH 8210 – Clinic Orthodontics
PGDE 8903 – Dissertation III

Summer Semester 5th Year Courses - Credits: 2
ORTH 8210 – Clinic Orthodontics
PGDE 8903 – Dissertation III

Degree Requirements
Students much complete all the courses, including clinical courses. In addition, students must develop, complete, and present a doctoral dissertation.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Oral Biology

Plan Description
The future of oral health medicine is dependent upon significant orthodontic and craniofacial research. Masters of Science – Oral Biology emphasizes orthodontic and craniofacial research and aims to aid developing orthodontic residents in becoming successful researchers, educators and/or clinicians. It does this by providing a diverse clinical experience with a strong integration of basic sciences. This program will equip residents with the clinical, the analytical and the managerial skills that are necessary to provide oral healthcare to the community.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website. In addition to being accepted to the UNLV Graduate College, prospective students must meet the following criteria.
1. Must have passed Parts I and II, National Dental Board Examination.
2. Must have earned a DMD/DDS degree from a program in the US or Canada that is fully accredited by the Commission on Dental Accreditation.
3. Must be eligible for a Nevada state dental license and receive a full or limited dental license from the Nevada State Board of Dental Examiners prior to engaging in any clinical activity.
4. Application through the Postdoctoral Application Support Service (PASS) including specified letters of
recommendations.
5. Background and criminal checks as required.
6. Medical history, immunizations and physicals as required.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

_Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time._

**Plan Requirements**

Total Credits Required: 147

**Course Requirements**

Required Courses – Credits: 141

- ORTH 8001 - Introduction to Orthodontics
- ORTH 8011 - Cephalometrics
- ORTH 8102 - Clinical Specialty Seminars I
- ORTH 8103 - Clinical Specialty Seminars II
- ORTH 8104 - Clinical Specialty Seminars III
- ORTH 8201 - Introduction to Clinic Orthodontics
- ORTH 8202 - Clinic Orthodontics
- ORTH 8203 - Clinic Orthodontics
- ORTH 8204 - Clinic Orthodontics
- ORTH 8205 - Clinic Orthodontics
- ORTH 8206 - Clinic Orthodontics
- ORTH 8207 - Clinic Orthodontics
- ORTH 8512 - Biomechanical Principles
- ORTH 8513 - Growth and Development
- ORTH 8518 - Orthodontic Materials
- ORTH 8602 - Diagnosis, Treatment Planning and Case Presentation
- ORTH 8603 - Diagnosis & Treatment Plan
- ORTH 8604 - Diagnosis & Treatment Plan
- ORTH 8605 - Diagnosis, Treatment Planning and Case Presentation
- ORTH 8606 - Diagnosis, Treatment Plan and Case Presentation
- ORTH 8607 - Diagnosis & Treatment Plan
- ORTH 8803 - Literature Review/Journal Club
- ORTH 8804 - Literature Review/Journal Club
- ORTH 8808 - Literature Review IV

- ORTH 8910 - Craniofacial Anomalies
- PGDE 8312 - Independent Research I
- PGDE 8313 - Independent Research II
- ORTH 8314 - Advanced Research
- PGDE 8315 - Independent Research III
- PGDE 8316 - Independent Research
- PGDE 8402 - Biomedical Sciences Core I
- PGDE 8403 - Biomedical Sciences Core II
- PGDE 8415 - Advanced Biomedical Sciences
- PGDE 8503 - Interdisciplinary Diagnosis and Treatment Planning
- PGDE 8517 - TMD
- PGDE 8701 - PSC: Lit Review
- PGDE 8702 - Res Design
- PGDE 8703 - Research Methods II
- PGDE 8715 - PSC: Practice Management

Thesis – Credits: 6

- PGDE 8901 - Thesis

**Degree Requirements**

1. The Master of Science – Oral Biology program is designed to be a three year program (divided as follows: Year 1: 3 trimesters (summer, fall, spring); Year 2: 2 semesters (Fall July-Dec, and Spring Jan-June); and Year 3: fall semester).

2. The advanced program in Orthodontics and Dentofacial Orthopedics is accredited by the Commission on Dental Accreditation; as such graduates of UNLV School of Dental Medicine’s Oral Biology program will also receive a certificate in Orthodontics and Dentofacial Orthopedics which is required for licensure.

3. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. A master’s thesis, which carries six credits, is required for the Oral Biology M.S. It must conform to the guidelines set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual. The M.A. thesis should be an original contribution to academic knowledge. Thesis projects must be designed, developed, and written in close consultation with an appropriate thesis advisor and with the student’s thesis committee.

3. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

ORTH 8001 - Introduction to Orthodontics  Credits 4
An introduction and overview of the specialty of orthodontics and dentofacial orthopedics to prepare the orthodontic resident for advanced education in this dental specialty.

ORTH 8011 - Cephalometrics  Credits 2
To discuss the history, development and the use of cephalometrics in clinical orthodontic practice. This course will cover the basic principles of Cephalometric analysis and describe developing as well as established skeletal Class I, II & III discrepancies.

ORTH 8102 - Clinical Specialty Seminars I  Credits 2
Clinical Specialty Seminars I

ORTH 8103 - Clinical Specialty Seminars II  Credits 3
A continuation and progressing advanced level of the one-hour clinical seminars that will proceed all clinical sessions. The purpose of these seminars is for the faculty to preview the daily clinic schedule and prepare the residents for the procedures to be performed during that clinic session.

ORTH 8104 - Clinical Specialty Seminars III  Credits 3
A continuation and progressing advanced level of the one-hour clinical seminars that will proceed all clinical sessions. The purpose of these seminars is for the faculty to preview the daily clinic schedule and prepare the residents for the procedures to be performed during that clinic session.

ORTH 8201 - Introduction to Clinic Orthodontics  Credits 4
An introduction and overview of the three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients, under the supervision of the attending orthodontic clinical faculty. Clinical attire, policies, procedures and professionalism will be discussed.

ORTH 8202 - Clinic Orthodontics  Credits 6
A continuation and progressing advanced level of the three-hour clinical sessions during which the resident will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients, under the supervision of the attending orthodontic clinical faculty.

ORTH 8203 - Clinic Orthodontics  Credits 6
A continuation and progressing advanced level of the three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients under the supervision of the attending orthodontic clinical faculty.

ORTH 8204 - Clinic Orthodontics  Credits 6
A continuation and progressing advanced level of the clinical sessions which provides the resident a more advanced level of material regarding orthodontic diagnosis, treatment planning and treatment. These clinical sessions are used to further evaluate residents diagnostic and treatment planning skills as well as their execution of the treatment plan. Progress is measured by interaction with attending faculty.

ORTH 8205 - Clinic Orthodontics  Credits 6
A continuation and progressively advanced level of three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients under the supervision of the attending orthodontic clinical faculty.

ORTH 8206 - Clinic Orthodontics  Credits 12
A continuation and progressively advanced level of three-hour clinical sessions during which the residents will screen, diagnose, treatment plan and treat and/or manage the orthodontic malocclusions of their patients, under the supervision of the attending orthodontic clinical faculty.

ORTH 8207 - Clinic Orthodontics  Credits 12
This course provides Orthodontics Residents a more advanced level of material regarding orthodontic diagnosis, treatment planning and treatment. Residents build on their previous knowledge and experience. Residents are taught various finishing techniques and how to choose the proper retention per individual cases. Actual progress is compared to pretreatment projections. If progress is not on schedule, causes and solutions are discussed and changes are implemented as needed. Residents must prepare ABO written presentations for their 6 finished cases. Grading: S/F grading

ORTH 8208 - Clinic Orthodontics  Credits 1
Advanced level of clinical education regarding orthodontic diagnosis, treatment planning and provision of treatment built on previous knowledge and experience. Various treatment techniques, pros and cons are discussed in developing treatment plans, options and prognosis. Progress schedule, causes and solutions are discussed and changes are implemented as needed. Grading: S/F grading

ORTH 8209 - Clinic Orthodontics  Credits 1
Advanced level of clinical education regarding orthodontic diagnosis, treatment planning and provision of treatment built on previous knowledge and experience. Various treatment techniques, pros and cons are discussed in developing treatment plans, options and prognosis. Progress schedule, causes and solutions are discussed and changes are implemented as needed. Grading: S/F grading

ORTH 8210 - Clinic Orthodontics  Credits 1
Advanced level of clinical education regarding orthodontic diagnosis, treatment planning and provision of treatment built on previous knowledge and experience. Various treatment techniques, pros and cons are discussed in developing treatment plans, options and prognosis. Progress schedule, causes and solutions are discussed and changes are implemented as needed. Grading: S/F grading

ORTH 8314 - Advanced Research  Credits 3
Advanced Research.

ORTH 8415 - Advanced Biomedical Sciences  Credits 2
This advanced continuum provides an in-depth update in clinically related topics in growth and development, oral and maxillofacial pathology, oral medicine, and systemic diseases that affect the oral cavity. Prerequisites: ORTH 8414

ORTH 8512 - Biomechanical Principles  Credits 2
The biomechanics course aims to teach the first year orthodontic residents basic principles of tooth movement. It will include definitions of force vectors, force application and various biological responses based on mechanical principles.

ORTH 8513 - Growth and Development  Credits 2
Growth and development Grading: Letter grade

ORTH 8515 - Orthognathic Surgery  Credits 2
Discussion of ethical issues and patient management as well as familiarize residents with clinical integration of dental specialties in preparation for the written QE board exams. Grading: S/F
ORTH 8518 - Orthodontic Materials  Credits 2
This course is comprised of seminar discussions of materials used in the practice of orthodontics. Students will demonstrate an understanding of: the characterization of contemporary materials, methods of testing, clinical use, and health and safety concerns with the use of common materials. This course will also provide the foundation for developing a research project involving orthodontic materials.

ORTH 8602 - Diagnosis, Treatment Planning and Case Presentation  Credits 4
A comprehensive in depth study of orthodontic diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

ORTH 8603 - Diagnosis & Treatment Plan  Credits 4
A comprehensive in depth study of orthodontic diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

ORTH 8604 - Diagnosis & Treatment Plan  Credits 4
A comprehensive in depth study of orthodontic diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

ORTH 8605 - Diagnosis, Treatment Planning and Case Presentation  Credits 4
A comprehensive in depth study of orthodontic diagnosis, treatment planning and American Board of Orthodontics (ABO) case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

ORTH 8606 - Diagnosis, Treatment Plan and Case Presentation  Credits 8
Diagnosis, treatment plan and case presentation

ORTH 8607 - Diagnosis & Treatment Plan  Credits 4
A comprehensive in depth study, diagnosis, treatment planning and ABO case reports of patients treated by orthodontic residents in our clinic. This will be accomplished in a seminar format where residents will present their case reports to fellow residents and faculty.

ORTH 8803 - Literature Review/Journal Club  Credits 2
Introduction to analyzing and understanding literature in orthodontics, including classification of study designs, hypothesis testing, scientific writing, analysis and interpretation of data, and critical evaluation of the literature. Residents participate in critical review of research in orthodontics and craniofacial biology throughout their education and in preparation for the ABO examination.

ORTH 8804 - Literature Review/Journal Club  Credits 2
A continuation and progressively advanced level of analyzing and understanding literature in orthodontics, including classification of study designs, hypothesis testing, scientific writing, analysis and interpretation of data, and critical evaluation of the literature. Residents participate in critical review of research in orthodontics and craniofacial biology throughout their education and in preparation for the American Board of Orthodontics certification examination.

ORTH 8805 - Literature Review  Credits 2
Literature review/journal club Grading: S/F

ORTH 8808 - Literature Review IV  Credits 1
A continuation and progressively-advanced level of analyzing and understanding literature in orthodontics including, classification of study design, hypothesis testing, scientific writing, analysis and interpretation of data, and critical evaluation of the literature.

ORTH 8910 - Craniofacial Anomalies  Credits 2
Introduce diagnostic and treatment planning principles of interdisciplinary team approach, as well as, provide a sound basis for clinical examination, diagnosis and team management of patients with severe malocclusion associated with birth defects and craniofacial anomalies.

PGDE 8312 - Independent Research I  Credits 3
PGDE 8313 - Independent Research II  Credits 3
A continuation and progressing advanced level of the research requirements, facilities and direction necessary for the orthodontic residents to successfully complete their advanced education in orthodontics and dentofacial orthopedics.

PGDE 8314 - Independent Research III  Credits 1
Independent Research III Grading: S/F

PGDE 8315 - Independent Research III  Credits 3
This course continues with advanced levels of research and scientific methodology. Topics include literature analysis, institutional review board (IRB), informed consent, experimental design, basic statistics, method development, data analysis and reporting.

PGDE 8316 - Independent Research  Credits 3
At the conclusion of this course, the Orthodontic Resident will be able to:
1. Understand the scientific method as it applies to critical review of the literature and research design.
2. Understand Literature search techniques and strategies as well as the different levels of research publications ranging from opinions, case reports, blinded studies, prospective research, randomized controlled clinical studies to systematic reviews.
3. Complete an independent research project to include an abstract, proposal, data collection, analysis and write up for submission to an appropriate peer-reviewed scientific journal
4. Complete Master’s Thesis

PGDE 8317 - Independent Research VI  Credits 3
Scientific method applying to critical review of literature and research design. Literature search techniques and strategies related to research publications (opinions, case reports, studies, clinical studies, systematic reviews). Complete an independent research project including an abstract, proposal, data collection, analysis and write up for submission of a thesis. Notes: S/F grading

PGDE 8318 - Independent Research VII  Credits 3
Scientific method applying to critical review of literature and research design. Literature search techniques and strategies related to research publications (opinions, case reports, studies, clinical studies, systematic reviews). Complete an independent research project including an abstract, proposal, data collection, analysis and write up for submission of a thesis. Grading: S/F grading

PGDE 8319 - Independent Research VIII  Credits 3
Scientific method applying to critical review of literature and research design. Literature search techniques and strategies related to research publications (opinions, case reports, studies, clinical studies, systematic reviews). Complete an independent research project including an abstract, proposal, data collection, analysis and write up for submission of a thesis. Grading: S/F grading

PGDE 8402 - Biomedical Sciences Core I  Credits 4
PGDE 8403 - Biomedical Sciences Core II  Credits 4
PGDE 8415 - Advanced Biomedical Sciences  Credits 2
PGDE 8503 - Interdisciplinary Diagnosis and Treatment Planning  Credits 2
This course provides Graduate Residents a background in the current state of the art for the major clinical disciplines. The course is conducted as a literature review of current research with summary papers to be written in each of the topics.
PGDE 8516 - Adv Clin Sci: Radiology  Credits 4
Provide residents with digital maxillofacial radiology procedures and protocols. Introduce residents to advanced maxillofacial radiology technology, i.e.; ConeBeam CT

PGDE 8517 - TMD  Credits 2
This course reviews appropriate literature of stomatognathic function, diagnosis and treatment of TM Disorders. The student will review the multi-factorial theory of TM Disorders and will distinguish simple TM Disorders vs. complex TM Disorders. A plan for management of TM disorders within their clinical discipline will be developed.

PGDE 8701 - PSC: Lit Review  Credits 2

PGDE 8702 - Res Design  Credits 2

PGDE 8703 - Research Methods II  Credits 2
This course will present relevant topics in the areas of practice management, ethics, nutrition and cultural diversity. The application of these topics to the practice of orthodontics will be emphasized.

PGDE 8704 - Research Design  Credits 2
Research fundamentals and practical component involving research of topics using methodologies in different laboratories. Rotation through different laboratories; conduct a short project; and submit an article for publication. Allows knowledge application of systematic literature review, organization, synthesis of information, hypothesis design, research methodology, data organization, statistical analysis and scientific writing. Grading: S/F grading

PGDE 8715 - PSC: Practice Management  Credits 2

PGDE 8900 - Thesis  Credits 6
Process of writing proposal and thesis, following guidelines and practices of scientific writing; idea organization and development; word choice; grammar; revisions to writing; attention by thesis committees; designed as seminar style with dialogue among students, instructor, and resource persons; preparations for in-class discussions and writing activities. Grading: S/F grading

PGDE 8901 - Thesis  Credits 6
This course guides students through the process of writing their proposal and thesis, following the guidelines/practices for oral biology/orthodontics.

PGDE 8902 - Dissertation II  Credits 1
Process of writing proposal and dissertation, following guidelines and practices of scientific writing; idea organization and development; word choice; grammar; revisions to writing; attention by dissertation committees; designed as seminar style with dialogue among students, instructor, and resource persons; preparations for in-class discussions and writing activities.
Grading: S/F grading

PGDE 8903 - Dissertation III  Credits 1
Process of writing proposal and dissertation, following guidelines and practices of scientific writing; idea organization and development; word choice; grammar; revisions to writing; attention by dissertation committees; designed as seminar style with dialogue among students, instructor, and resource persons; preparations for in-class discussions and writing activities. Grading: S/F grading
School of Medicine
UNLV School of Medicine received preliminary accreditation in 2016. The school is a full-scale, four-year allopathic medical school that is an integral part of a vibrant, research-intensive public university. The medical school’s mission is to improve access to high-quality health care in Southern Nevada by increasing the number of physicians and trained specialists who are committed to serving the region. One of the primary goals of UNLV School of Medicine is to provide diverse and medically underserved populations access to timely high quality health care. The accompanying academic health center will serve as the core infrastructure for the entire medical community and generate top-quality research that spans the basic and clinical sciences.

Our vision is to create a world-class center of excellence and innovation for medical education, patient care, and research that prepares Nevada’s physicians with the most advanced knowledge, treatments, and technologies while serving the health care needs of our diverse urban community.

Dr. Barbara Atkinson, Founding Dean
Dr. Ellen Cosgrove, Vice Dean for Academic Affairs and Education
Dr. Samuel Parrish, Senior Associate Dean for Student Affairs & Admissions
Dr. Laura Culley, Associate Dean of Community Engagement
Dr. Gary Shen, Assistant Dean of Clinical Education
Dr. Parvesh Kumar, Senior Associate Dean for Clinical Research
Dr. Kate Martin, Associate Dean of Graduate Medical Education & Designated Institutional Official
Dr. Mario Gaspar De Alba, Associate Dean for Diversity & Inclusion

Programs
Couple and Family Therapy Program
Plans
Doctor of Medicine
School Information
School of Medicine
School of Medicine Courses

Doctor of Medicine
This program is accredited by: LCME. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description
The mission of the UNLV School of Medicine is to prepare a diverse student body for the delivery of patient-centered care and meaningful careers in clinical practice, research, and community service. The program integrates foundational science and primary care clinical experiences with community-based service learning that addresses population health and social disparities, incorporates independent research projects that contribute to the growth of scientific knowledge and community health resources, and develops strong commitments to public service and lifelong learning. The curriculum is community-based, and includes instruction in biomedical ethics, ethical decision-making, patient safety, population health, as well as training in interprofessionalism, professionalism, cultural competence, bias recognition and reduction, and non-traditional medical needs; such as, hospitality, legal, and business facets of medicine.

The Doctor of Medicine (MD) program emphasizes the basics of medicine: communication, physical exam and diagnosis, clinical skills, advanced clinical reasoning and interpretation, professionalism, and ethics using technologically advanced tools and genomic data to foster medical student learning. Overall, the curriculum is community-focused, but places great importance on relationships through faculty to student mentorship, extensive experience with health care professionals in the delivery of primary care and longitudinal patient-centered care, in addition to immersion in community service projects and initiatives. Students will directly apply their learning in the service of others, providing compassionate care in collaboration with many other health professionals including: physicians, nurses, nurse practitioners, dentists, physical therapists, social workers, occupational therapists, and other community practitioners in the pursuit of providing the best patient outcomes and satisfaction.

Plan Admission Requirements
1. A conferred Bachelor’s degree is required for admission to the UNLV School of Medicine.

Required courses for consideration by UNLV School of Medicine:
- Biology: three semesters; one course must include a lab
- Biochemistry: one semester
- Behavioral Science/Psychology or Sociology: one semester

Students cannot use “Advanced Placement” credits or online courses to satisfy the required premedical coursework. Recommended courses include these: Genetics, Immunology, Molecular Biology, Physiology and Statistics. A basic understanding of the concepts taught in these courses is helpful to students seeking a M.D. degree.
2. **MCAT**: Applicants must submit a Medical College Admissions Test (MCAT) score by the final application deadline. Only the new MCAT scores will be accepted (https://students-residents.aamc.org/video/new-mcat-exam/). The most recent exam score will be used during the admissions process.

3. **Metric Requirements**: Minimum scores for the MCAT are set at 499. An undergraduate GPA of 3.2 overall is required.

4. **AMCAS Application**: UNLV School of Medicine will only accept applications via AMCAS.

5. **Secondary Application**: The secondary application will be completed online. Selected applicants will be invited to complete the secondary. There is a $75 application fee. Students who qualify for the AMCAS fee assistance program will not be required to pay the $75 fee.

6. **Applicant Photographs**: Each applicant must submit a professional photograph (head shot only) with his/her secondary application. The photo will be used during the "Interview Day" and by the Admissions Committee.

7. **Letters of Recommendation/Evaluation**: Applicants are required to submit three to five letters of recommendation. Applications submitted with no letters of recommendation will be considered incomplete. Letter of recommendations can be written from an individual or a committee. Applicants should select letter writers who will reflect their major activities and who know them well. The Admissions Committee prefers letters that address the applicant's suitability for a career in medicine and as a medical student. Letters of recommendation should provide new information in the application, not restate activities the applicant has already provided. Letters only will be accepted through the AMCAS Letter Service. UNLV School of Medicine will not accept letters of recommendation by any other process.

8. **Transcripts**: Applicants are required to submit transcripts of coursework completed after AMCAS submission directly to the Office of Admissions for UNLV School of Medicine. Check the UNLV School of Medicine website for application deadlines: https://www.unlv.edu/medicine/studentaffairs

**Course Requirements**
- MED 801 - Emergency Response and Population Health
- MED 802 - Introduction to Medical Science
- MED 803 - Hematology & Oncology
- MED 804 - Musculoskeletal and Skin Systems
- MED 805 - Gastroenterology, Endocrinology and Reproduction
- MED 806 - Cardiovascular, Pulmonary and Renal Systems
- MED 807 - Research 1
- MED 808 - Mind, Brain, and Behavior
- MED 809 - Multi-system Disease
- MED 810 - Doctoring 1
- MED 811 - Analytics in Medicine 1
- MED 812 - Nevada Community Service 1
- MED 813 - Primary Care Preceptorship 1
- MED 820 - Doctoring 2
- MED 821 - Analytics in Medicine 2
- MED 822 - Nevada Community Service 2
- MED 823 - Primary Care Preceptorship 2
- MED 827 - Research 2
- MED 830 - Doctoring 3
- MED 831 - Analytics in Medicine 3
- MED 832 - Nevada Community Service 3
- MED 833 - Primary Care Preceptorship 3
- MED 901 - Longitudinal Integrated Clerkship 1
- MED 902 - Longitudinal Integrated Clerkship 2
- MED 903 - Longitudinal Integrated Clerkship 3
- MED 904 – Longitudinal Integrated Clerkships 4
- MED 1000s – Career Exploration Elective Rotations (Specialties)
- MED 2000s – Career Exploration Advanced Elective Rotations
- MED 7000 – Capstone

**Plan Requirements**

Total Credits Required: 183


**Graduation Requirements**

The Medical Student Progress Committee is responsible for making final decisions regarding the progress, promotion, and qualification for graduation of students in the School of Medicine. A documented concern about a student’s performance, professional conduct, or personal behavior may result in a Committee determination of unsatisfactory progress when the record is reviewed by the Medical Student Progress Committee. The Medical Student Progress Committee will consider the completion of required courses and clerkships as well as documented professional conduct and personal behavior in making the final determination of whether the student has met the standards for promotion and for graduation.

The awarding of the Doctor in Medicine degree is contingent upon the satisfactory completion of all curricular and academic requirements, and the satisfactory practice of acceptable professional conduct and personal behavior.

Required credits by curriculum phase are as follows:

- **Foundations Phase 1:** 93 credits
  - Research: 18 credits
  - Clerkships Phase 2: 50 credits
  - Career Preparation Phase 3: 40 credits
  - Transition to Residency: 4 credits

Total required credits: 183

In addition to the required course and clerkships listed above,

1. Every student is required to participate in all intersessions;
2. Successfully complete a scholarly research project;
3. Pass all components of the Objective Structured Clinical Examinations; and
4. Achieving a passing score on the United States Medical Licensing Examinations: USMLE Step 1, Step 2 – Clinical Knowledge, and Step 3 – Clinical Skills.

Students must complete all requirements for the M.D. degree within a period of time not to exceed six years from the date of initial matriculation. (For concurrent degree programs, e.g. M.D. MPH or M.D. Ph.D., the completion time will differ).

Students will receive a copy of the UNLV School of Medicine Student Handbook during first-year orientation, which outlines policies and procedures pertaining to academic progress. For more information about the Doctor of Medicine program please visit the UNLV School of Medicine website.

**MED 801 - Emergency Response and Population Health**

Credits 12

This immersion experience provides an introduction and orientation to the UNLV School of Medicine’s campus, policies, and the community. Emphasis is placed on the development of patient evaluation skills, knowledge of emergency medical procedures, and awareness of community/public health issues, including qualification for the Nevada National Registry (EMT) Exam. Prerequisites: School of Medicine student in good standing.

**MED 802 - Introduction to Medical Science**

Credits 6

An introduction to the biomedical sciences and basis for further study in the medical sciences. Introduces the basic tenets of biochemistry, molecular biology, cellular biology, genetics, and embryology, as well as histology, pathology, epidemiology, immunology, and pharmacology. Prerequisites: School of Medicine student in good standing.

**MED 803 - Hematology & Oncology**

Credits 4

An integrated study of normal and abnormal aspects of the hematopoietic system along with an introduction to the multisystem discipline of oncology. Overview of pathophysiology, epidemiology, biostatistics, diagnostic tests, and exposure to basic concepts of cancer biology, epidemiology, and anti-neoplastic therapies. Prerequisites: School of Medicine student in good standing.

**MED 804 - Musculoskeletal and Skin Systems**

Credits 5

An integrated study of the musculoskeletal and integumentary systems. Overview of pathophysiology, epidemiology, anatomy and embryology, biostatistics, diagnostic tests, as well as therapeutic principles associated with musculoskeletal disorders and dermatology. Prerequisites: School of Medicine student in good standing.

**MED 805 - Gastroenterology, Endocrinology and Reproduction**

Credits 8

Prerequisites: School of Medicine student in good standing.

**MED 806 - Cardiovascular, Pulmonary and Renal Systems**

Credits 12

An integrated study of the cardiovascular, pulmonary, and renal systems, structures and functions. Overview of pathophysiology, epidemiology, biostatistics, diagnostic tests, and therapeutic principles associated with disorders. Prerequisites: School of Medicine student in good standing.

**MED 807 - Research 1**

Credits 12

The medical curriculum fosters the multidirectional and multidisciplinary integration of basic, patient-oriented, and population-based research with the long-term goal of improving public health. Basic science knowledge is applied to conduct research, evaluate, and apply findings that enhance community health and produce meaningful health outcomes promoting prevention and/or treatment advances. Prerequisites: School of Medicine student in good standing.

**MED 808 - Mind, Brain, and Behavior**

Credits 10

An integrated study of neurology, psychiatry, behavioral medicine, and human development, and understanding of the structure and function of the central and peripheral nervous system. Overview of pathophysiology, epidemiology, biostatistics, diagnostic tests, and therapeutic principles associated with the nervous system and mental disorders. Same as: No Grading: S/F Prerequisites: Successful passage of MED 801, MED 802, MED 803, MED 804, MED 805, MED 806, MED 810, MED 811, and MED 812. School of Medicine student in good standing.

**MED 809 - Multi-system Disease**

Credits 6

An integrated study of complex disorders involving multiple tissues, organs, systems, and the diagnosis and management of chronic multisystem disorders. Overview of pathophysiology, epidemiology, biostatistics, diagnostic tests, and therapeutic principles associated with selected multisystem diseases, including infectious diseases and collagen-vascular diseases as exemplars. Same as: No Grading: S/F Prerequisites: Successful passage of MED 801, MED 802, MED 803, MED 804, MED 805, MED 806, MED 810, MED 811, and MED 812. School of Medicine student in good standing.
MED 810 - Doctoring 1  
Credits 1
The first of a three-part foundational series designed to develop knowledge, skills, attitudes, and behaviors for the modern, competent, ethical, and humane physician. Emphasis is placed on the longitudinal development of clinical skills and professionalism prior to advancing into the clerkship and career preparation phases of the medical program. Prerequisites: School of Medicine student in good standing.

MED 811 - Analytics in Medicine 1  
Credits 1
A longitudinal, three-part foundational series focused on developing proficiency and analytical techniques in utilizing clinical care experience and research to interpret and apply evidence to patient care and decisions for the improvement of care, healthcare systems and processes. Topics include: biostatistics, epidemiology, bioethics, and evidence based medicine. Prerequisites: School of Medicine student in good standing.

MED 812 - Nevada Community Service 1  
Credits 1
A longitudinal three-part series integrating community health and service learning experiences throughout the foundations and clinical phases of the curriculum. Emphasis is placed on the development of awareness and accountability to patient care and the community, and knowledge of activism, advocacy, and social justice through professional, civic, and research activities. Prerequisites: School of Medicine student in good standing.

MED 813 - Primary Care Preceptorship 1  
Credits 1
The first of a three-part, concurrent doctoring series focused on the value and integral role of primary care in the health care system. Instruction consists of weekly, half-day rotations over the course of eighteen months in a continuity, out-patient primary care setting.

MED 820 - Doctoring 2  
Credits 1
A part of a longitudinal three-part series designed to develop knowledge, skills, attitudes, and behaviors for the modern, competent, ethical, and humane physician. Emphasis is placed on the development of clinical skills and professionalism prior to advancing into the clerkship and career preparation phases of the medical program. Prerequisites: School of Medicine student in good standing.

MED 821 - Analytics in Medicine 2  
Credits 1
Part of a longitudinal foundational series focused on developing proficiency and analytical techniques in utilizing clinical care experience and research to interpret and apply evidence to patient care and decisions for the improvement of care, healthcare systems and processes. Topics include: biostatistics, epidemiology, bioethics, and evidence based medicine. Prerequisites: School of Medicine student in good standing.

MED 822 - Nevada Community Service 2  
Credits 1
Part of a longitudinal series integrating community health and service learning experiences throughout the foundations and clinical phases of the curriculum. Emphasis is placed on the development of awareness and accountability to patient care and community, and knowledge of activism, advocacy, and social justice through professional, civic, and research activities. Prerequisites: School of Medicine student in good standing.

MED 823 - Primary Care Preceptorship 2  
Credits 1
A part of a longitudinal, concurrent doctoring series focused on the value and integral role of primary care in the health care system. Instruction consists of weekly, half-day rotations over the course of eighteen months in a continuity, out-patient primary care setting.

MED 827 - Research 2  
Credits 6
A longitudinal research component continuing the multi-directional and multidisciplinary integration of basic, patient-oriented, and population-based research with the long-term goal of improving public health. Basic science knowledge is applied to conduct research, evaluate, and apply findings that enhance community health and produce meaningful health outcomes promoting prevention and/or treatment advances.

MED 830 - Doctoring 3  
Credits 1
A part of a longitudinal three-part series designed to develop knowledge, skills, attitudes, and behaviors for the modern, competent, ethical, and humane physician. Emphasis is placed on the development of clinical skills and professionalism prior to advancing into the clerkship and career preparation phases of the program. Prerequisites: School of Medicine student in good standing.

MED 831 - Analytics in Medicine 3  
Credits 1
Part of a longitudinal foundational series focused on developing proficiency and analytical techniques in utilizing clinical care experience and research to interpret and apply evidence to patient care and decisions for the improvement of care, healthcare systems and processes. Topics include: bio statistics, epidemiology, bioethics, and evidence based medicine. Prerequisites: School of Medicine student in good standing.

MED 832 - Nevada Community Service 3  
Credits 1
Part of a longitudinal series integrating community health and service learning experiences throughout the foundations and clinical phases of the curriculum. Emphasis is placed on the development of awareness and accountability to patient care and community, and knowledge of activism, advocacy, and social justice through professional, civic, and research activities. Prerequisites: School of Medicine student in good standing.

MED 833 - Primary Care Preceptorship 3  
Credits 1
A part of a longitudinal, concurrent doctoring series focused on the value and integral role of primary care in the health care system. Instruction consists of weekly, half-day rotations over the course of eighteen months in a continuity, out-patient primary care setting.

MED 891 - Longitudinal Integrated Clerkship 1  
Credits 12
Comprehensive, patient- and learner-centered care in varied clinical settings across seven core specialties: internal medicine, family medicine, neurology, obstetrics & gynecology, psychiatry, and surgery. Following an immersion on inpatient services, rotations occur in outpatient settings, and incorporate time for self-directed learning and exploration of other specialties. Prerequisites: School of Medicine student in good standing.

MED 892 - Longitudinal Integrated Clerkship 2  
Credits 13
Comprehensive, patient- and learner-centered care in varied clinical settings across seven core specialties: internal medicine, family medicine, neurology, obstetrics & gynecology, psychiatry, and surgery. Following an immersion on inpatient services, rotations occur in outpatient settings, and incorporate time for self-directed learning and exploration of other specialties. Prerequisites: School of Medicine student in good standing.

MED 893 - Longitudinal Integrated Clerkship 3  
Credits 12
Comprehensive, patient- and learner-centered care in varied clinical settings across seven core specialties: internal medicine, family medicine, neurology, obstetrics & gynecology, psychiatry, and surgery. Following an immersion on inpatient services, rotations occur in outpatient settings, and incorporate time for self-directed learning and exploration of other specialties. Prerequisites: School of Medicine student in good standing.

MED 894 - Longitudinal Integrated Clerkship 4  
Credits 13
The culmination of forty-six weeks of clinical experience imparts comprehensive and quality care of patients, interprofessional learning relationships with supervising clinicians and healthcare professionals, and mastery of core competencies across multiple disciplines/subspecialty practices. Thorough exposure to professional, organizational, and societal issues that impact the practice of medicine and healthcare system. Same as: No Grading: S/F Prerequisites: Successful passage of MED 901, MED 902, and MED 903
Couple and Family Therapy Program
The Couple and Family Therapy program offers a master of science degree and a graduate certificate. The M.S. degree program in couple and family therapy is accredited by the Commission on Accreditation for Couple and Family Therapy Education (COAMFTE). Couple and Family Therapy is a theory-based professional practice. The program emphasizes putting theory into clinical practice. This practice includes supervised clinical experiences in the on-campus Center for Individual, Couple and Family Counseling. Students complete an approved internship in the community.

Students are required to obtain 500 hours of face-to-face clinical contact through practica and internship site experiences.

The philosophy of the MFT faculty is based upon values of individual worth and dignity, personal uniqueness and value, and individual freedom to be self-determined within a context of responsibility to others. Program faculty members represent a wide variety of therapy approaches and are actively involved in research related to the profession of couple and family therapy. Students are encouraged to become informed consumers of therapy literature and research. The program also emphasizes the importance of personal growth of the student. Since personal qualities play a vital part in the determination of success as a therapist, opportunities are provided for the development of self-awareness, as well as an understanding of the effect one has upon others in interpersonal relationships.

The mission of the MFT program is to provide quality training in the theory and practice of couple and family therapy to students primarily from the Southern Nevada region, but also those from the state, across the country, and throughout the world. We are committed to helping students become competent professionals through developing greater self-awareness, appreciating and embracing diversity, learning the art and science of clinical practice, and promoting a sense of ethical behavior, professionalism and professional identity.

Alison Netski, M.D., Chair
Sara Jordan, Ph.D., Graduate Coordinator

Master of Science - Couple and Family Therapy
This program is accredited by: COAMFT. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description
The Couple and Family Therapy Master of Science Degree Program, a 60 semester hour course of study, prepares candidates for licensure as a Couple and Family Therapist (MFT) in Nevada. MFTs work with individuals, couples, families, and groups on mental health, behavioral, personal and/or relational concerns. MFTs are employed in a wide range of settings, including public and private, for-profit and non-profit agencies, hospitals and social service agencies. They may practice independently after they are fully licensed. While there are similarities between MFT licensing requirements for most states, students are strongly encouraged to become familiar with the licensing requirements in the state(s) wherein they want to practice as an MFT. Students who are in their final semester of completing their degrees may apply to the State of Nevada Board of Examiners for Marriage and Family Therapists and Clinical Professional Counselors for licensure as an MFT Intern. Once approved by the Board, a licensed Marriage and Family Therapy Intern is eligible to practice under the direct supervision of an AAMFT Approved Supervisor or AAMFT Supervisor Candidate. Further information on this process may be obtained by calling the board’s office. Students should be aware that the state’s post-master’s internship and the department’s pre-master’s internships are in no way related. The department does not offer, nor otherwise sanction, state internships.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

The master’s degree program requires that applicants apply for admission to the Graduate College, as well as to the Department of Couple and Family Therapy as Applicants must provide official transcripts of all college level coursework. In addition, applicants are required to submit Graduate Record Examination (GRE) scores on both the Verbal and Quantitative sections of the general test. A minimum score of 450 is required on each and must have been taken within five years prior to submitting admission applications. A minimum grade point average of 2.75 for all undergraduate work and a 3.00 for the last two years of undergraduate work is required.

Applicants must also make arrangements for three letters of recommendation to be sent directly to the department, along with a departmental application form, and two writings (an autobiographical writing and an essay on the family). Potential students should visit the department website for specific application materials (http://mft.unlv.edu/index.html).
Applications are accepted once a year, with a January 15 priority deadline and a final deadline of July 1. The application process also involves an extensive on-campus interview for viable candidates, with all candidates participating in interviews together. Classes begin in the Fall semester.

Note: Non-admitted students may take up to three selected courses (see course listing for prerequisites) prior to formal admission to the program (CFT 701, CFT 759 and CFT 763). If admitted, these courses are eligible to count toward the degree. However, program tuition remains the same. Please contact the Couple and Family Therapy graduate coordinator for more information.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 54

- CFT 701 - Introduction to Couple and Family Therapy
- CFT 719 - Sexual Issues in Marriage and Family Therapy
- CFT 720 - Counseling Across the Lifespan
- CFT 725 - Diversity in Couple and Family Therapy
- CFT 731 - Substance Abuse in Couple and Family Therapy
- CFT 759 - Family Dynamics
- CFT 762 - Diagnosis in Couple and Family Therapy
- CFT 763 - Family Systems Theory
- CFT 764 - Principles and Practices of Marriage and Family Therapy I
- CFT 765 - Principles and Practices of Couple and Family Therapy II
- CFT 771 - Ethical and Legal Issues in Couple and Family Therapy
- CFT 773 - Intermediate Couple and Family Therapy Practicum
- CFT 776 - Advanced Community Practicum
- CFT 777 - Couples Counseling
- CFT 779 - Couple and Family Therapy Research Seminar

Thesis – Credits: 6
- CFT 749 - Thesis

Degree Requirements

1. Have a cumulative grade point average of 3.00 or better in the program. Students who receive an F, or more than two Cs, will be separated from the program.
2. A grade of B or better is required in any practicum or internship or the course must be repeated.
3. Students are required to complete 6 credits of thesis.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Every student will be reviewed each semester to determine adequate progress and retention in the program.
6. The full time program is sequenced so that students take a certain number or courses or credits each semester, including summer. A student who does not follow the designated course sequence may lack prerequisites for their next courses, and, therefore, may need to wait for a course to be offered again in the next cycle. It is the responsibility of the student to discuss course sequencing and planned timing with their advisor. Not all courses are offered every semester or every year. There are many courses that are offered only once each calendar year. Thus, it is imperative that students take the recommended number of credits and stay in sequence in order for them to graduate in a timely manner.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 54

- CFT 701 - Introduction to Couple and Family Therapy
- CFT 719 - Sexual Issues in Marriage and Family Therapy
- CFT 720 - Counseling Across the Lifespan
- CFT 725 - Diversity in Couple and Family Therapy
• CFT 731 - Substance Abuse in Couple and Family Therapy
• CFT 759 - Family Dynamics
• CFT 762 - Diagnosis in Couple and Family Therapy
• CFT 763 - Family Systems Theory
• CFT 764 - Principles and Practices of Marriage and Family Therapy I
• CFT 765 - Principles and Practices of Couple and Family Therapy II
• CFT 771 - Ethical and Legal Issues in Couple and Family Therapy
• CFT 773 - Intermediate Couple and Family Therapy Practicum
• CFT 776 - Advanced Community Practicum
• CFT 777 - Couples Counseling
• CFT 779 - Couple and Family Therapy Research Seminar

Capstone Course – Credits: 6
• CFT 750 - Capstone

Degree Requirements

1. Have a cumulative grade point average of 3.00 or better in the program. Students who receive an F, or more than two Cs, will be separated from the program.

2. A grade of B or better is required in any practicum or internship or the course must be repeated.

3. Students prepare a portfolio with either a clinical focus or research focus and are required to complete 6 credits of capstone.

4. Every student will be reviewed each semester to determine adequate progress and retention in the program.

5. The full time program is sequenced so that students take a certain number of courses or credits each semester, including summer. A student who does not follow the designated course sequence may lack prerequisites for their next courses, and, therefore, may need to wait for a course to be offered again in the next cycle. It is the responsibility of the student to discuss course sequencing and planned timing with their advisor. Not all courses are offered every semester or every year. There are many courses that are offered only once each calendar year. Thus, it is imperative that students take the recommended number of credits and stay in sequence in order for them to graduate in a timely manner.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete the capstone.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
CFT 736 - Orientation to Couple and Family Therapy Credits 1
Provides information concerning the professional role, function, history, philosophy and practice of therapy. Role of the marriage and family therapist in community, educational, and business settings, as well as their interactive relationship with other professionals. Formerly: MFT 736

CFT 737 - Seminar: Crucial Issues in Couple and Family Therapy Credits 3 – 6
Analysis of selected and significant issues in therapy of current and continuing concern. Notes: May be repeated once for credit. Majors only. Prerequisites: Admission to CFT MS program.

CFT 748 - Couple and Family Therapy Professional Paper Credits 3
The professional paper is designed to demonstrate the skills students have acquired during their graduate education. Grading: S/F grading only. Prerequisites: Admission to CFT MS program. Corequisite: CFT 737

CFT 749 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits applied to the student’s program. Grading: S/F grading only. Prerequisites: CFT 779, admission to CFT MS program or consent of instructor.

CFT 750 - Capstone Credits 1 - 6
As a capstone experience in the program, students may choose to prepare either a clinical or research portfolio. The clinical portfolio focuses on students’ development as a clinician. The research portfolio focuses on students’ development as a scientist-practitioner. Students will be required to prepare a written and oral presentation. Notes: May be repeated to a maximum of six credits. Grading: S/U grading only. Prerequisites: Admission into the CFT MS program.

CFT 755 - Advanced Couple and Family Theories Credits 3
Intensive exploration of current and historical developments in the field of marriage and family therapy. Emphasis on the major systems and applications together with the current research in these areas. Prerequisites: CFT 750

CFT 756 - Human Development Credits 3
Study of human growth and development of individuals across the lifespan, including stability and change in relationships. Focus on developmental implications in conducting couple and family therapy and interventions. Prerequisites: Admission to CFT MS program.

CFT 758 - Individual Instruction Credits 1 – 3
Selected basic problems related to the field of couple and family therapy. a) Testing. b) Curriculum. c) Supervision. d) Therapy. e) Area Problems. f) Research. Notes: May be repeated to a maximum of nine credits. Prerequisites: Admission to CFT MS program.

CFT 759 - Family Dynamics Credits 3
Study of family factors as they relate to personal adaptability. Application of research and practice in family therapy relative to the interpersonal problems of adults and children.

CFT 761 - Technology and the Internet in the Social Science, Research and Practice Credits 3
Explores role of technology in changing society, application of technology to field of social sciences, research and practice, and limitations and concerns about technology in the helping profession. Prerequisites: CFT 701. Admission to CFT MS program or consent of instructor.

CFT 762 - Diagnosis in Couple and Family Therapy Credits 3
Overview of practical and theoretical aspects of assessment and diagnosis of behavior in couple and family therapy. Examination of cultural factors affecting diagnosis and assessment. Focus on relational diagnosis. Prerequisites: Admission to CFT MS program or consent of instructor. Corequisite: MFT 764

CFT 763 - Family Systems Theory Credits 3
In-depth analysis of general systems theory as it applies to therapy, especially with multi-person client systems such as couples and families. Major concepts, philosophical foundations, and pragmatic implications of using systematic principles in counseling.

CFT 764 - Principles and Practices of Marriage and Family Therapy I Credits 3
Focuses on the process of family therapy. Beginning skills necessary for family therapy. Theoretical foundations in systems theory as well as each of the major models of family therapy. Prepares students to assess families and conduct family therapy from variety of approaches. Prerequisites: Admission to CFT MS program.

CFT 765 - Principles and Practices of Couple and Family Therapy II Credits 3
Focuses on contemporary family therapy theories and approaches, including marital therapy theories and models. Advanced understanding of assessment, applications of current research and outcomes, professional and ethical issues, and clinical marital issues included. Prerequisites: CFT 764

CFT 771 - Ethical and Legal Issues in Couple and Family Therapy Credits 3
Examination of professional organizations, their methods of change, ethical and legal standards, their evolution and application to a variety of professional activities. Prerequisites: Admission to CFT program.

CFT 772 - Beginning Couple and Family Therapy Practicum Credits 3
Beginning therapy experience with couples and families. Prerequisites: CFT 701; CFT 765.

CFT 773 - Intermediate Couple and Family Therapy Practicum Credits 3
Intermediate therapy experience with couples and families. Notes: Must be repeated for a minimum of nine credits. Prerequisites: CFT 762, CFT 765, CFT 772

CFT 774 - Advanced Couple and Family Therapy Practicum Credits 3
Advanced therapy experience with couples and families. Prerequisites: CFT 701; CFT 765; CFT 772

CFT 775 - Couple and Family Therapy Community Practicum Credits 3
Externship experience with couples and families. Prerequisites: CFT 774.

CFT 776 - Advanced Community Practicum Credits 3
Advanced practicum experience with couples and families. Formerly: MFT 776 Prerequisites: CFT 762, CFT 765, CFT 775

CFT 777 - Couples Counseling Credits 3
Specialized approaches to resolving adult relationship problems. Theoretical issues, relationship appraisal techniques, and ethical considerations specific to couples therapy. Prerequisites: Admission to CFT MS program.

CFT 779 - Couple and Family Therapy Research Seminar Credits 3
Seminar in the application and integration of couple and family therapy outcome and process research. Emphasis on developing knowledge necessary to understand the results of and apply the methods of couple and family research through an exploration of applied research methods, and relevant research findings. Prerequisites: Admission to CFT MS program.

CFT 781 - Best Practices in Couple and Family Therapy Credits 3
Advanced course that builds upon existing knowledge and clinical experience. Focuses on research supporting the effectiveness of couple and family therapy. Students will learn “best practice” couple and family treatment approaches for use with clients suffering from various relational and mental health problems. Prerequisites: CFT 762, CFT 779. Admission to CFT MS program or consent of instructor.
CFT 783 - Trauma and Abuse  Credits 3
Specified counseling procedures with the child abuser or abused child. Study etiology of the phenomenon of child abuse. Study of factors and their interpretation to facilitate intervention models and resources to meet client objectives. Prerequisites: CFT 759 Admission to CFT MS program or consent of instructor.

CFT 787 - Individual Research  Credits 1 – 3
Selected problems in Couple and Family Therapy. Notes: May be repeated to a maximum of seven credits. Prerequisites: Admission to CFT MS program.

CFT 788 - Advanced Seminar in Couple and Family Therapy  Credits 1 – 6
Selected topics in counseling and human development services. a) Principles and practices. b) Individual analysis. c) Occupational information. d) Placement. e) Follow-up evaluation. f) Research. Same as: (EPY 788) Notes: May be repeated to a maximum of six credits. Prerequisites: Admission to CFT MS program.

CFT 793 - Doctoral Internship  Credits 3 – 6
Intense supervision with a restricted client load. Enrollees synthesize and translate clinical skills in supervisory role. Restricted to doctoral candidates. Notes: May be repeated to a total of six credits. Prerequisites: Doctoral candidates. Admission to CFT MS program or consent of instructor.

CFT 799 - Dissertation  Credits 3 – 24
Culminating experience that may be: a) traditional, original research, b) field oriented and problem solving, or c) exploratory or generative research. Notes: Limited to doctoral candidates. 3-24 credits in increments of 3. Prerequisites: Doctoral candidates. Admission to CFT MS program or consent of instructor.
School of Nursing

Welcome to the School of Nursing at UNLV. Our nursing program is the oldest in Southern Nevada and the only School of Nursing in Nevada to offer a Doctor of Philosophy in Nursing (Ph.D.) Degree.

All of our graduate programs are all web-based to allow for “anytime, anyplace” education but may involve occasional visits to campus.

Our Master of Science in Nursing Degree (MSN), offers two tracks, Family Nurse Practitioner (FNP) and Nurse Educator (NE). We also offer an Advanced Graduate Certificate FNP and NE post-masters certificate.

FNP's provide primary care for individuals across the lifespan and often provide care to indigent and uninsured populations. The NE prepares graduates to teach nursing. Thus, increasing qualified faculty so that area nursing schools may increase their enrollment. The MSN degree program is growing rapidly because of the great need for advanced practice nurses and nurse educators in Nevada. The master’s program has full accreditation by the Commission on Collegiate Nursing Education (CCNE) and is designed to provide students the requisite knowledge and skills for safe and effective nursing practice.

A new Doctorate of Nursing Practice (DNP) degree program is now available at UNLV to educate both post-bachelor’s degree and post-master’s degree students. The DNP degree is a terminal professional practice degree and prepares graduates in the tracks of advanced clinical practice as a Family Nurse Practitioner or Nurse Executive. The DNP program is online but requires occasional trips to campus for orientation, skills training, and testing. The BSN to DNP Family Nurse Practitioner track is accredited by CCNE.

Our Ph.D. in Nursing degree program is research-focused with an emphasis on education. A bridge program, Post Doctor of Nursing Practice (DNP) to Doctor of Philosophy in Nursing (Ph.D.) is also available. Our goal is to prepare scholars to advance nursing science and practice through rigorous research, evidence-based education, and dynamic leadership.

Our Interdisciplinary Health Sciences (IHS) Ph.D. is offered in collaboration with Kinesiology, Nutrition, Health Physics, and Physical Therapy. This program is focused on biobehavioral issues and prepares nurses to work collaboratively with other health care professionals to advance research and education. There is a sub plan in the IHS Program for Nursing.

Expansion of our research activities includes a number of well-funded graduate assistant positions available for full-time students. Graduate assistants work closely with faculty on their research and/or teaching and this may include teaching in the clinical setting. It is a wonderful opportunity to gain additional knowledge and skills and foster professional relationships with faculty.

I encourage you to read the catalog and explore our website to find out more about all of these programs and to visit us when you are in the Las Vegas area.

Angela Amar, Ph.D., RN, FAAN, Dean
Tricia Gaithlin, Ph.D., RN, C.N.E., Associate Dean
Mary Bondmass, Ph.D., R.N., C.N.E., Associate Dean for Faculty Affairs
Du Feng, Ph.D., Interim Associate Dean for Research

Nursing Faculty

Dean
Amar, Angela - Full Graduate Faculty Professor; BSN, MS Louisiana State University Medical Center; PhD University of Pennsylvania.

Associate Dean for Graduate Affairs
Miller, Sally - Full Graduate Faculty Associate Professor; BSN, MSN Rutgers, The State University; PhD Walden University. Rebel since 2014.

Associate Dean for Faculty Affairs
Bondmass, Mary - Full Graduate Faculty Associate Professor; BSN Loyola University; MSN Loyola; PhD University of Illinois. Rebel since 2015.

Ph.D. Program Coordinator, DNP Program Coordinator
Kawi, Jennifer - Full Graduate Faculty Assistant Professor; BSN Saint Louis University; MSN University of Nevada, Las Vegas; PhD University of Colorado, Denver. Rebel since 2007.

MSN Program Coordinator
Angosta, Alona - Full Graduate Faculty Associate Professor; BSN, MSN University of Nevada, Las Vegas; PhD University of Hawaii. Rebel since 2005.

Graduate Faculty
Bellow, Aaron – Full Graduate Faculty Assistant Professor; BSN McNeese State University; MSN University of Texas; PhD Duquesne University. Rebel since 2017.

Benfield, Rebecca - Full Graduate Faculty Associate Professor; BSN University of North Carolina; MSN University of Kentucky; PhD University of South Carolina. Rebel since 2015.

Candela, Lori - Full Graduate Faculty Associate Professor; BS Metropolitan State College; MS, University of Colorado; EdD University of Southern California. Rebel since 1999.

Cho, June - Full Graduate Faculty Associate Professor; BSN Catholic University Seoul, Republic of Korea; MSN Yonsei University, Seoul, Republic of Korea; PhD, Post Doc University of North Carolina, Chapel Hill. Rebel since 2018.

Clark, Michele - Full Graduate Faculty Associate Professor Emeritus; BSN University of California; MS, PhD University of Arizona. Rebel since 2006.

Clevesy, Marcia - Full Graduate Faculty Assistant Professor; BSN University of Phoenix; MSN North Eastern University; DNP University of South Alabama. Rebel since 2006.

Colosimo, Roseann - Full Graduate Faculty Associate Professor; BSN Saint John College, Cleveland Ohio; MSN Catholic University, Washington DC; PhD The Ohio State University, Columbus, Ohio. Rebel since 2016.

Cyrkiel, Dianne - Associate Graduate Faculty Lecturer; BSN Indiana University, MSN, University of Texas. Rebel since 2000.

Dingley, Catherine - Full Graduate Faculty Associate Professor; BSN University of West Florida; MSN Midwestern State University; PhD University of Colorado. Rebel since 2015.

Doolen, Jessica - Full Graduate Faculty Assistant Professor; BSN, MSN, University of Nevada, Las Vegas; PhD, University of Northern Colorado. Rebel since 1994.

Eisenberg, Karen - Associate Graduate Faculty Lecturer; BSN, MSN Regis University. Rebel since 2012.

Ekroos, Rachell - Full Graduate Faculty Assistant Professor; BSN UAMS, MSN, Clarkson College; Ph.D., University of Washington, Seattle. Rebel since 2017.
Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner

Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner for the FNP

Post Graduate Certificate in Biobehavioral Nursing

**Advanced Graduate Certificate in Emergency Nurse Practitioner**

**Plan Description**

Individuals who already have a master’s degree in nursing as a Family Nurse Practitioner and meet the admissions qualifications will be allowed to take courses as a non-degree student. No degree will be awarded but a certificate documenting completion of the coursework will be provided and transcripts showing completion of the courses will be available.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degrees Directory.

**Plan Admission Requirements**

**Application deadlines**

Applications available on the UNLV Graduate College website.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students must apply and submit all admission materials via the Grad Rebel Gateway system available through the Graduate College. The following items are required:

1. Official transcripts of all coursework for both baccalaureate and master’s degrees must be sent to the School of Nursing and Graduate College. Master’s transcripts must show coursework in Family Nurse Practitioner curriculum with the conferral of a Master of Science in Nursing degree from a program fully accredited by National League of Nursing (NLN) and/or American Association Colleges of Nursing (AACN.) The accrediting body for NLN is ACEN and the accrediting body for the American Association Colleges of Nursing is CCNE. GPA of 3.0 or above

2. Current valid unencumbered and unrestricted RN and APRN licensure in the state of residence.


4. National board certification or eligibility through the American Nurse Credentialing Center (ANCC) or the American Association of Nurse Practitioners (AANP) as a Family Nurse Practitioner. For board eligible applicants, completion of the FNP program must have been within the previous 6 months. Achievement and verification of FNP board certification will be required prior to completion of the Advanced Graduate Certificate in Emergency Nurse Practitioner.
5. Three letters of recommendation from either instructors or employers that speak to the applicant’s potential to complete the Advanced Graduate Certificate in Emergency Nurse Practitioner Program.

6. A statement describing the students’ professional goals and the reason for seeking the Advanced Graduate Certificate in Emergency Nurse Practitioner.

7. Current Resume or Curriculum Vitae (CV).

8. Signed letter of attestation from local emergency care facility(ies) department director and medical director indicating student will be allowed to complete a minimum of 350 clinical hours.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 15

Course Requirements
Required Courses – Credits: 15

• NURS 794 - Psychiatric Mental Health Nurse Practitioner I
• NURS 796 - Psychiatric Mental Health Nurse Practitioner II
• NURS 799 - Psychiatric Mental Health Nurse Practitioner III

Certificate Requirements
Completion of a minimum of 15 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Advanced Graduate Certificate in Family Nurse Practitioner (ON HOLD)

Plan Description
Individuals who already have a master’s degree in nursing, and meet the admission qualifications will be allowed to take courses as a non-degree student. No degree will be awarded, but a certificate documenting completion of the course work will be provided and transcripts showing completion of the courses will be available. Each individual applicant will be evaluated to determine the courses required in order to complete the specific certificate program. Additional courses beyond the minimum courses needed for the certificate program may be required if the applicant’s earned MS in nursing lack courses required by the UNLV School of Nursing.

View Plan Disclaimer

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degrees Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students must apply and submit all admission materials via the Grad Rebel Gateway system available through the Graduate College. The following items are required:

1. Official transcripts of all course work for both baccalaureate and master’s degrees must be sent to the School of Nursing and Graduate College. Transcripts must show coursework in Advanced Physical Assessment, Advanced Pathophysiology, and Advanced Pharmacology. Additionally, if unofficial transcripts are available to the student, please upload to the Grad Rebel Gateway application. Nursing course work must have been completed at a nursing program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education.

2. Three (3) letters of recommendation from either instructors or employers that speak to the applicant’s potential to complete the Advanced Graduate Certificate in Family Nurse Practitioner Program.

3. Statement of 300 words describing the students’ professional goals and reason for seeking a nurse practitioner certificate.

4. Current resume or curriculum vitae (CV).

5. Current, unrestricted, valid RN license in state of residence. Have practiced as a baccalaureate prepared registered nurse (RN) for a minimum of 2000 hours prior to beginning coursework in the program.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 28

Course Requirements

Required Courses – Credits: 28

• NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
• NURS 714 - Family Theory and Health Promotion
• NURS 740R - FNP Adult and Women’s Health
• NURS 750R - FNP Children and OB
Certificate Requirements
Completion of a minimum of 28 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Plan Disclaimer
In Nevada, the educational prerequisites for professional licensure or certification for the Advanced Graduate Certificate in Family Nurse Practitioner (FNP) are an active Nevada RN License, National Certification as a Family Nurse Practitioner, and graduation from a nationally accredited Nursing Program with a minimum of 500+ hours of direct patient care. The Advanced Graduate Certificate in Family Nurse Practitioner does NOT currently satisfy those licensure and certification requirements as accreditation by the Commission of Collegiate Nursing Education (CCNE) is pending and the University expects to hear something by April 2018. UNLV School of Nursing has not made a determination with respect to the licensure requirements in any other state. As such, Advanced Graduate Certificate in Family Nurse Practitioner is not authorized in any other state in which the prospective or enrolled student resides. If you reside in a state other than Nevada or CCNE does not grant accreditation as anticipated, UNLV will refund the applicable application fee in accordance with its procedures. License requirements for other states are being explored. Please check our website for current information about Fall 2019 application.

Advanced Graduate Certificate in Nursing Education

Plan Description
Individuals who already hold a master’s degree in nursing and meet the admission qualifications, may take courses leading to the Nursing Education Post-Masters Certificate. Admitted students take courses as a non-degree student and are awarded a certificate documenting completion of the required course work. The Nursing Education Post-Masters Certificate prepares individuals for teaching positions within a program of nursing or a nurse educator position in a clinical setting. Additional courses beyond the minimum courses needed for the certificate program may be required if the applicants earned M.S. in Nursing lack courses required by the UNLV School of Nursing.

View Program Disclaimers.
For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
Students must apply and submit all admission materials via the Grad Rebel Gateway system available through the Graduate College. The following items are required:

1. Transcripts of all course work for both baccalaureate and masters degrees must be sent to the School of Nursing and Graduate College. Transcripts must show coursework in Advanced Physical Assessment, Advanced Pathophysiology, and Advanced Pharmacology. Additionally, if unofficial transcripts are available to the student, please upload to the Apply Yourself application. Nursing course work must have been completed at a nursing program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education.

2. Three (3) letters of recommendation from either instructors or employers that speak to the applicant’s potential to complete the Advanced Graduate Certificate in Nursing Education Program.

3. Statement of 300 words describing the students’ professional goals and reason for seeking a nurse practitioner certificate.

4. Current resume or vita.

5. Current, unrestricted, valid RN license in state of residence.

6. Have practiced as a baccalaureate-prepared registered nurse (RN) for a minimum of 2000 hours prior to beginning coursework in the program.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12

- NURS 709 - Teaching and Learning in Nursing Education
- NURS 710 - Course Level Evaluation Strategies for Nurse Educators
- NURS 724 - Developing & Evaluating Curriculum for Nursing Education
- NURS 733 - Nursing Education Practicum I

Certificate Requirements

Completion of a minimum of 12 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Plan Disclaimers

This program does not result in licensure and certification.

Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner

Plan Description

Individuals who already have a graduate degree in nursing and meet the admission qualifications will be allowed to take courses as a non-degree student. No degree will be awarded, but a certificate documenting completion of the course work will be provided and transcripts showing completion of the courses will be available. Each individual applicant will be evaluated to determine the courses required in order to complete the specific certificate program. Additional courses beyond the minimum courses needed for the certificate program may be required if the applicant’s earned graduate degree in nursing lacks courses required by the UNLV School of Nursing.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degrees Directory.

View Certificate Disclaimer.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students must apply and submit all admission materials via the Grad Rebel Gateway system available through the Graduate College.

The following items are required:

1. Official transcripts of all course work for both baccalaureate and graduate degrees must be sent to the School of Nursing and Graduate College. Transcripts must show coursework in Advanced Physical Assessment, Advanced Pathophysiology, and Advanced Pharmacology. Additionally, if unofficial transcripts are available to the student, please upload to the Grad Rebel Gateway application. Nursing course work must have been completed at a nursing program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education.

2. Three letters of recommendation from either instructors or employers that speak to the applicant’s potential to complete the Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner Program.

3. Statement of 300 words describing the students’ professional goals and reason for seeking a nurse practitioner certificate. Current resume or curriculum vitae (CV). Current valid unencumbered and unrestricted RN license in state of residence.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 28

Course Requirements

Required Courses – Credits: 28

- NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
- NURS 714 - Family Theory and Health Promotion
- NURS 752 - Nurse Practitioner Business and Roles
- NURS 761 - Clinical Synthesis
- NURS 794 - Psychiatric Mental Health Nurse Practitioner I
- NURS 796 - Psychiatric Mental Health Nurse Practitioner II
- NURS 799 - Psychiatric Mental Health Nurse Practitioner III

Certificate Requirements

Completion of a minimum of 28 credit hours with a minimum GPA of 3.00.

Plan Certificate Completion Requirements

The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
Plan Disclaimer

In Nevada, the educational prerequisites for professional licensure or certification for the Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner (PMHNP) are an active Nevada RN License, National Certification as a Psychiatric Mental Health Nurse Practitioner, and graduation from a nationally accredited Nursing Program with a minimum of 500+ hours of direct patient care. The Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner does NOT currently satisfy those licensure and certification requirements as this is a new program and a substantive program change form will be submitted to our accrediting body, the Commission of Collegiate Nursing Education (CCNE), when the program is implemented. UNLV School of Nursing has not made a determination with respect to the licensure requirements in any other state. As such, Advanced Graduate Certificate in Psychiatric Mental Health Nurse Practitioner is not authorized in any other state in which the prospective or enrolled student resides. If you reside in a state other than Nevada or CCNE does not grant accreditation as anticipated, UNLV will refund the applicable application fee in accordance with its procedures. License requirements for other states are being explored. Please check our website for current information about Fall 2020 application.

Post Graduate Certificate in Biobehavioral Nursing

Plan Description

The certificate in Biobehavioral Nursing will provide students with a foundation in biobehavioral research approaches and team science. Courses will prepare students using biological, behavioral, and associated factors which influence health and illness.

View Program Disclaimers.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website. A terminal research degree in nursing or related field is required.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

- HSC 701 - Interdisciplinary Team Science
- NURS 739 - Biobehavioral Approaches in Nursing Research
- NURS 741 - Biobehavioral Mechanisms, Pathways, and Measurements
- NURS 747 - Introduction to Laboratory Procedures for Biobehavioral Studies
- NURS 798 - Independent Study

Plan Certificate Completion Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

Plan Disclaimers

This program does not result in licensure and certification.

Doctor of Nursing Practice

This program is accredited by: CCNE. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Doctor of Nursing Practice (DNP) is a terminal professional practice degree. The goal of the DNP program is to prepare nurses to assume leadership roles in clinical practice, administration, and clinical research. The DNP differs from the PhD in Nursing or Doctor of Nursing Science degrees, emphasizing advanced clinical practice, implementation of best practices, and evaluation of practice and care delivery models rather than individually initiated research. The DNP program prepares graduates for advanced clinical practice and leadership roles to serve the health care needs of the people of Nevada, the nation, and the professional community. DNP graduates are equipped to assume a wide range of leadership roles in both direct and indirect health care settings. DNP graduates may function as specialists in their advanced practice clinical roles or as healthcare executives, program and policy analysts.

DNP Program Learning Outcomes:

The goal of the DNP degree is to prepare nurses to assume leadership roles in clinical practice and health care leadership and analysis. At the conclusion of the University of Nevada, Las Vegas, School of Nursing DNP program, graduates will:

1. Provide advanced nursing care to improve patient and population health care outcomes in various direct and indirect settings.
2. Take leadership roles in the analysis, delivery and management of nursing care and health care systems.
3. Provide evidence-based practice through the application of analytical methods, information systems technology, and clinical research.
4. Collaborate with interprofessional teams to meet the healthcare needs of culturally and ethnically diverse individuals and populations.
5. Act as change agent, leader, and advocate in the design, implementation, and evaluation of health care policy as it affects populations and the nursing profession.

View Subplan Disclaimers.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Post-Master’s Tracks:

Advanced Practice Track:

1. Hold a baccalaureate degree in nursing from an accredited nursing program (Commission on Collegiate Nursing Education [CCNE], Accreditation Commission for Education in Nursing [ACEN], National League for Nursing [NLN] Commission for Nursing Education Accreditation [CNEA]).

2. Students must hold a master’s degree in nursing (MSN or MN) from an accredited program. Exceptions to this will be made on a case-by-case basis and only for those students who hold a baccalaureate degree in nursing with a master’s degree in another health-related field (e.g., MBA, MHA, MPH, etc.).

3. Coursework from non-nursing majors must have significant content from nursing or a nursing focus. At a minimum, graduate-level coursework must demonstrate a substantial study of nursing theory, research, and healthcare policy. Students who have not completed a graduate level course in healthcare policy must complete NURS 719R within the first year of study in the DNP program.

4. Generally, a minimum grade point average of 3.5 (on a 4.0 = A scale) earned in a nursing or health-related master’s program of study is required. Students who graduated from accredited competency-based schools are advised to contact the Program Director for additional information.

5. Hold an unrestricted and unencumbered license as a registered nurse.

6. Provide documentation for one of the following:

   1. National certification as a Nurse Executive through either the American Nurses Credentialing Center or the American Organization of Nurse Executives (AONE), or as a Certified Nurse Manager and Leader through AONE.

6. Students with any other advanced practice national certification are advised to contact the Program Director for information.

7. Minimum of 500 hours of academically supervised clinical practicum in master’s degree program on leadership or management.

8. Interviews may be required.

Nurse Executive Track:

1. Hold a baccalaureate degree in nursing from an accredited nursing program (CCNE, ACEN, NLN CNEA).

2. Hold a master’s degree in nursing (MSN or MN) from an accredited program. Exceptions to this will be made on a case-by-case basis and only for those students who hold a baccalaureate degree in nursing with a master’s degree in another health-related field (i.e. MBA, MHA, MPH, etc.).

3. Coursework from non-nursing majors must have significant content from nursing or a nursing focus. At a minimum, graduate-level coursework must demonstrate a substantial study of nursing theory, research, and healthcare policy. Students who have not completed a graduate level course in healthcare policy must complete NURS 719R within the first year of study in the DNP program.

4. Generally, a minimum grade point average of 3.5 (on a 4.0 = A scale) earned in a nursing or health-related master’s program of study is required. Students who graduated from accredited competency-based schools are advised to contact the Program Director for additional information.

5. Hold an unrestricted and unencumbered license as a registered nurse.

6. Provide documentation for one of the following:

   1. National certification as a Nurse Executive through either the American Nurses Credentialing Center or the American Organization of Nurse Executives (AONE), or as a Certified Nurse Manager and Leader through AONE.

7. Minimum of 500 hours of academically supervised clinical practicum in master’s degree program on leadership or management.

8. Interviews may be required.

BSN to DNP Tracks:

Family Nurse Practitioner, Psychiatric Mental Health Nurse Practitioner, and Nurse Executive Tracks:

1. Hold a baccalaureate degree in nursing from a nationally accredited nursing program (CCNE, ACEN, or NLN CNEA).

2. Generally, a minimum grade point average of 3.2 (on a 4.0 = A scale) earned in a baccalaureate nursing degree is required. Students who graduated from accredited competency-based schools are advised to contact the Program Director for additional information.
3. Hold an unrestricted and unencumbered license as a registered nurse.

4. Have practiced as a baccalaureate prepared registered nurse for a minimum of one calendar year (2000 hours) prior to beginning coursework in the BSN to DNP program.

5. Interviews may be required.

Other Admission Information:

1. Three letters of professional recommendation from individuals who can evaluate the applicant’s motivation, academic capability, advanced practice and/or leadership potential, and personal goals for study in a DNP program.

2. Letter of interest and Self-Presentation:
   1. Professional goal statement (500 word maximum) describing career objectives and areas of interest in advanced practice or leadership roles. Include reasons for pursuing a doctor of nursing practice degree, specific interest in the University of Nevada, Las Vegas program, and past experiences and achievements in nursing practice, leadership, and scholarship.
   2. Current resume or curriculum vita (CV).

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Post-Master’s Advanced Practice Track
Subplan 2: BSN - DNP Family Nurse Practitioner Track
Subplan 3: Post-Master’s Nurse Executive Track
Subplan 4: BSN - DNP Nurse Executive Track
Subplan 5: BSN to DNP Psychiatric Mental Health Nurse Practitioner Track

Subplan 1 Requirements: Post-Master’s Advanced Practice Track

Total Credits Required: 31

View Subplan Disclaimer.

Course Requirements

Required Courses – Credits: 25

- NURS 708 - Analysis and Economics of Healthcare Systems and Delivery
- NURS 712 - Strategies for Management of Healthcare Systems and Performance Improvement
- NURS 715 - Business Management for Nurse Practitioners
- NURS 716 - Population Health: Analysis and Evaluation
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 729R - Translational Evidence for Healthcare Systems
- NURS 765 - DNP Residency
- NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
- NURS 768 - DNP Forum & Role Transformation

DNP Project – Credits: 6
- NURS 788 - DNP Project

Degree Requirements

1. Complete 31 credits with a minimum GPA of 3.00.
2. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
3. Receive a grade of “B” (3.00) or above in all required cognate and nursing courses. If less than a “B”, for example a B- (2.7) is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.
4. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than “B” is ineligible for readmission unless approved by the Graduate College.
5. If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.
6. Complete a minimum of six (6) semester hours in each calendar year.
7. Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, Program Director, appropriate academic dean, and the Graduate Dean.
8. The Advisor monitors the student’s progress through the program of study. In addition, the Program Director will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current
full graduate faculty status at UNLV, which can be checked at: http://graduatecollege.unlv.edu/facstaff/status.html.

9. Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the Program Director when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.

10. In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

11. Continuously register for three (3) semester hours of credit each semester while working on a DNP Project.

12. Once admitted to the DNP program, students will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students. The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP Essentials. This is a project completed over at least three semesters in the program.

13. Students in the DNP program are required to abide by the policies for UNLV School of Nursing. Students in the DNP program are also required to abide by the policies of the UNLV Graduate College.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: BSN to DNP Family Nurse Practitioner Track

Total Credits Required: 68

View Subplan Disclaimer.

Course Requirements

Required Courses – Credits: 62

- NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
- NURS 703 - Advanced Health Assessment
- NURS 704 - Advanced Pathophysiology and Genetics I
- NURS 706 - Nursing Theory and Research
- NURS 708 - Analysis and Economics of Healthcare Systems and Delivery
- NURS 711 - Informatics and Quality Improvement
- NURS 712 - Strategies for Management of Healthcare Systems and Performance Improvement
- NURS 714 - Family Theory and Health Promotion
- NURS 715 - Business Management for Nurse Practitioners
- NURS 716 - Population Health: Analysis and Evaluation
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 729R - Translational Evidence for Healthcare Systems
- NURS 730 - Advanced Pharmacology and Genetics II
- NURS 740R - FNP Adult and Women’s Health
- NURS 750R - FNP Children and OB
- NURS 760R - FNP Geriatric and Chronic Illness
- NURS 765 - DNP Residency
- NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
- NURS 768 - DNP Forum & Role Transformation

DNP Project – Credits: 6

- NURS 788 - DNP Project

Students who wish to step out of the DNP program and receive a master’s degree will be required to complete NURS 761, Clinical Synthesis, and some courses identified above as required.

Degree Requirements

1. Complete 68 credits with a minimum Grade Point Average (GPA) of 3.00.

2. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

3. Receive a grade of “B” (3.00) or above in all required cognate and nursing courses. If less than a “B”, for example a B- (2.7) is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.

4. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than “B” is ineligible for readmission unless approved by the Graduate College.

5. If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.

6. Complete a minimum of six (6) semester hours in each calendar year.
7. Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, Program Director, appropriate academic dean, and the Graduate Dean.

8. The Advisor monitors the student’s progress through the program of study. In addition, the Program Director will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current full graduate faculty status at UNLV, which can be checked at: http://graduatecollege.unlv.edu/facstaff/status.html.

9. Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the Program Director when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.

10. In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

11. Continuously register for three (3) semester hours of credit each semester while working on a DNP Project.

12. Once admitted to the DNP program, students will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.

13. The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP Essentials. This is a project completed over at least three semesters in the program.

14. Students in the DNP program are required to abide by the policies for UNLV School of Nursing. Students in the DNP program are also required to abide by the policies of the UNLV Graduate College.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Master’s Nurse Executive Track

Total Credits Required: 32

View Subplan Disclaimers.

Course Requirements

Required Courses – Credits: 26

- NURS 718 - Organizational Management for the Advanced Practice Nurse
- NURS 726 - Healthcare Issues And The Law
- NURS 729R - Translational Evidence for Healthcare Systems
- NURS 735 - Healthcare Outcomes Management
- NURS 737 - Leadership in Organizations and Systems
- NURS 738 - Financial Theory and Budget Management in the Healthcare Setting
- NURS 765 - DNP Residency
- NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
- NURS 768 - DNP Forum & Role Transformation Cognate Elective (Focus depends on master’s degree coursework)

DNP Project – Credits: 6

- NURS 788 - DNP Project

Degree Requirements

1. Complete 32 credits with a minimum GPA of 3.0.
2. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
3. Receive a grade of “B” (3.00) or above in all required cognate and nursing courses. If less than a “B”, for example a B- (2.7) is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.
4. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than “B” is ineligible for readmission unless approved by the Graduate College.
5. If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.
6. Complete a minimum of six (6) semester hours in each calendar year.
7. Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee, if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, Program Director, appropriate academic dean, and the Graduate Dean.

8. The Advisor monitors the student’s progress through the program of study. In addition, the Program Director will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current full graduate faculty status at UNLV, which can be checked at: http://graduatecollege.unlv.edu/facstaff/status.html.

9. Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the Program Director when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.

10. In consultation with his/her advisor, a student will organize an advisory committee of at least two School of Nursing members. In addition, a third member from outside the School of Nursing, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student or School of Nursing’s discretion. Please see Graduate College policy for committee appointment guidelines.

11. Continuously register for three semester hours of credit each semester while working on a DNP Project.

12. Once admitted, students will need to continue to take a minimum of three credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.

13. The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP Essentials. This is a project completed over at least three semesters in the program.

14. Students in the DNP program are required to abide by the policies for UNLV School of Nursing and are also required to abide by the policies of the UNLV Graduate College.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: BSN to DNP Nurse Executive Track
Total Credits Required: 60
View Subplan Disclaimer.

Course Requirements
Required Courses – Credits: 54
- NURS 706 - Nursing Theory and Research
- NURS 708 - Analysis and Economics of Healthcare Systems and Delivery
- NURS 711 - Informatics and Quality Improvement
- NURS 712 - Strategies for Management of Healthcare Systems and Performance Improvement
- NURS 716 - Population Health: Analysis and Evaluation
- NURS 718 - Organizational Management for the Advanced Practice Nurse
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 726 - Healthcare Issues And The Law
- NURS 729R - Translational Evidence for Healthcare Systems
- NURS 735 - Healthcare Outcomes Management
- NURS 736 - Innovations in Communication: Scholarly Writing
- NURS 737 - Leadership in Organizations and Systems
- NURS 738 - Financial Theory and Budget Management in the Healthcare Setting
- NURS 754 - NE Practicum I: Organizations as Complex Systems
- NURS 756 - NE Practicum II: Organizational Transformation
- NURS 757 - NE Practicum III: Executive Leadership
- NURS 765 - DNP Residency
- NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
- NURS 768 - DNP Forum & Role Transformation
- NURS 772 - The Nurse as Leader

DNP Project – Credits: 6
- NURS 788 - DNP Project

Degree Requirements
1. Complete 60 credits with a minimum Grade Point Average (GPA) of 3.00.
2. Maintain a cumulative GPA of 3.00 or above each semester enrolled.

3. Receive a grade of “B” (3.00) or above in all required cognate and nursing courses. If less than a “B”, for example a B- (2.7) is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.

4. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than “B” is ineligible for readmission unless approved by the Graduate College.

5. If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.

6. Complete a minimum of six (6) semester hours in each calendar year.

7. Each student, upon admission, will be assigned an advisor. The advisor (and later the Advisory Committee including the chair of the Advisory committee, if in place) will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, Program Director, appropriate academic dean, and the Graduate Dean.

8. The Advisor monitors the student’s progress through the program of study. In addition, the Program Director will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval. Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current full graduate faculty status at UNLV, which can be checked at http://graduatecollege.unlv.edu/facstaff/status.html.

9. Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the Program Director when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.

10. In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

11. Continuously register for three semester hours of credit each semester while working on a DNP Project.

12. Once admitted, students will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.

13. The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP essentials. This is a project completed over at least 3 semesters in the program.

14. Students in the DNP program are required to abide by the policies for UNLV School of Nursing and are also required to abide by the policies of the UNLV Graduate College.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 5 Requirements: BSN to DNP Psychiatric Mental Health Nurse Practitioner Track

Total Credits Required: 68

View Subplan Disclaimer.

Course Requirements

Required Courses – Credits: 62

- NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
- NURS 703 - Advanced Health Assessment
- NURS 704 - Advanced Pathophysiology and Genetics I
- NURS 706 - Nursing Theory and Research
- NURS 708 - Analysis and Economics of Healthcare Systems and Delivery
- NURS 711 - Informatics and Quality Improvement
- NURS 712 - Strategies for Management of Healthcare Systems and Performance Improvement
- NURS 714 - Family Theory and Health Promotion
- NURS 715 - Business Management for Nurse Practitioners
- NURS 716 - Population Health: Analysis and Evaluation
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 729R - Translational Evidence for Healthcare Systems
- NURS 730 - Advanced Pharmacology and Genetics II
- NURS 765 - DNP Residency
- NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader
- NURS 768 - DNP Forum & Role Transformation
• NURS 794 - Psychiatric Mental Health Nurse Practitioner I
• NURS 796 - Psychiatric Mental Health Nurse Practitioner II
• NURS 799 - Psychiatric Mental Health Nurse Practitioner III

DNP Project – Credits: 6

Students who wish to step out of the DNP program and receive a master’s degree will be required to complete NURS 761. Clinical Synthesis and some courses identified above as required will not be completed.

• NURS 788 - DNP Project

Degree Requirements

1. Complete 68 credits with a minimum Grade Point Average (GPA) of 3.00.
2. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
3. Receive a grade of “B” (3.00) or above in all required cognate and nursing courses. If less than a “B”, for example a B- (2.7) is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.
4. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than “B” is ineligible for readmission unless approved by the Graduate College.
5. If a student fails two courses or has withdrawn from two courses or received a grade less than “B” in two courses he/she is ineligible for readmission unless approved by the Graduate College.
6. Complete a minimum of six (6) semester hours in each calendar year.
7. Each student, upon admission, will be assigned an advisor. The advisor and later the Advisory Committee including the chair of the Advisory committee if in place will plan the student’s entire degree program of study and submit it to the Graduate College by the end of the second semester of enrollment. The degree program requires the approvals of the student, advisor, and the DNP Coordinator, the appropriate academic dean, and the Graduate Dean.
8. The Advisor monitors the student’s progress through the program of study. In addition, the DNP Coordinator will monitor the student’s progress, including adherence to all established policies of the Graduate College. At any given time, the student can request a change of advisor or chair of Advisory Committee. However, it is the student’s responsibility to secure approval of an individual faculty member who agrees to serve as his or her advisor before changing the original advisor, subject to Graduate College approval.

Also, it is the student’s responsibility to make sure that his or her chosen advisor or chair has current graduate faculty status at UNLV, which can be checked at: http://graduatecollege.unlv.edu/facstaff/status.html.

9. Students will select a chair for their DNP Project committee in the first semester and be required to file the Committee Appointment Form with the DNP coordinator when this is completed. More specific information about the DNP Project will be discussed in the courses it is embedded in the program.

10. In consultation with his/her advisor, a student will organize an advisory committee of at least two departmental members. In addition, a third member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

11. Continuously register for three (3) semester hours of credit each semester while working on a DNP Project.

12. Once admitted to the DNP program, students will need to continue to take a minimum of 3 credits per semester for both fall and spring semesters to maintain their place in the program until graduation. A leave of absence may be requested by students.

13. The DNP Project is a culmination project based on guidelines from the American Association of Colleges of Nursing (AACN) DNP Essentials. This is a project completed over three semesters in the program.

14. Students in the DNP program are required to abide by the policies for UNLV School of Nursing. Students in the DNP program are also required to abide by the policies of the UNLV Graduate College.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

Submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements. The student must submit and successfully defend his/her DNP Project by the posted deadline. The defense must be advertised and is open to the public. The student must electronically submit a properly formatted pdf copy of their project to the Graduate College for format check. Once the project format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for project defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 1: Post-Master’s Advanced Practice Track: This program does not result in licensure and certification.

Subplan 2: In Nevada, the educational prerequisites for professional licensure or certification for the BSN to DNP Advanced Practice Track (DNP) Family Nurse Practitioner (FNP) are an active Nevada RN License, National Certification as a Family Nurse Practitioner, and graduation from a nationally accredited Nursing Program with a minimum of 500+ hours of direct patient care. The DNP track is accredited by the Commission on Collegiate Nursing Education (CCNE). UNLV School of Nursing has not made a determination with respect to the licensure requirements in any other state. As such, DNP Advanced Practice Family Nurse Practitioner may not be authorized in any other state in which the prospective or enrolled student resides. If you reside in a state other than Nevada where licensure requirements are still unclear, UNLV will refund the applicable application fee in accordance with its procedures. License requirements for other states are being explored.

Subplan 3: Post-Master’s Nurse Executive Track: This program does not result in licensure and certification.

Subplan 4: BSN to DNP Nurse Executive Track: This program does not result in licensure and certification.

**Doctor of Philosophy - Nursing**

**Plan Description**

Individuals who complete the Ph.D. in Nursing Program will be prepared to advance nursing science and practice through rigorous research, evidence-based education, and dynamic leadership.

Graduates will demonstrate the following program outcomes:

1. Provide leadership in the advancement of nursing as a scientific and practice discipline through the conduct of culturally competent scholarship and identification of implications for policy, the discipline, and the profession.

2. Conduct and communicate original research that generates new knowledge.

3. Develop, implement and evaluate innovative approaches to teaching and learning.

**Course Offerings**

Doctoral courses offered by the School of Nursing are web-based. However, students are required to attend an on-campus orientation prior to the first semester of enrollment. These meeting times and dates are set in advance to allow students adequate time to make appropriate plans. Students are also required to be on campus for their oral comprehensive exams, proposal defense, and final dissertation defense.

**Programs of Study**

There are two options in the current Ph.D. in Nursing Program: Nursing Education Track and the Post-D.N.P. to Ph.D. Track. The UNLV School of Nursing (SON) Ph.D. in Nursing Curriculum Framework outlines the shared required core courses in the Ph.D. Nursing Program.

**View Program Disclaimers.**

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Doctor of Philosophy - Nursing; Nursing Education
- Doctor of Philosophy - Nursing; Post Doctor of Nursing Practice

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

1. Admission into the nursing doctoral program is contingent upon the qualifications of the applicant and the availability of open positions. Students are admitted once a year in the fall. Applicants must have submitted all required materials by the deadline posted on the School of Nursing website.

2. For the Post-D.N.P. to Ph.D. Track an earned Doctorate in Nursing Practice degree from a program accredited by the Commission on Collegiate Nursing Education (CCNE), the National League for Nursing (NLN) Commission for Nursing Education Accreditation (CNEA), or the Accreditation Commission for Education in Nursing (ACEN) is required. In addition to the required courses below, students must have 17 units from an accredited DNP program.

3. Earned master’s degrees in nursing (MSN) require programs accredited by CCNE, NLN CNEA, or ACEN; persons educated outside the United States need to demonstrate proof of equivalent education and advanced degrees.

4. Persons holding a bachelor’s degree in nursing and master’s degree in a health-related discipline from an accredited institution are eligible for admission but will need to successfully complete graduate level courses in health and public policy and nursing theory.

5. Generally, a minimum grade point average of 3.5 (on a 4.0 = A scale) earned in a nursing or health-related master’s program of study is required. Students who graduated from accredited competency-based schools are advised to contact the Program Director for additional information.

6. Successful completion within the last 5 years of graduate course work or equivalent in statistics with a B or better.

7. Current unencumbered and unrestricted license as a Registered Nurse in at least one state or territory of the US.

8. Applicants must present GRE scores on verbal,
quantitative and analytic measures. The exam must have been taken within the last five years. Post DNP applicants are exempt from this requirement.

9. Three letters of recommendation are required from individuals who can evaluate the applicant’s motivation, academic capability, scholarship potential, and personal integrity for doctoral study in nursing.

10. Evidence of current health and malpractice insurance. Accepted applicants must, prior to enrollment, show proof of completion of the Hepatitis B vaccine series, a titer indicating presumptive immunity, or a statement from a health care provider indicating that vaccination is contraindicated for health reasons and validation of a negative drug screen. Other immunization and health data requirements are identified in the student handbook.

11. Applicants must submit the following written materials for review:

1. Two representative samples of scholarly work (e.g., thesis, demonstration project, publications, etc.).

2. Written statement of personal career, educational and scholarship goals including identification of research interests. Statement should include description of how the applicant’s research goals align with specific faculty programs of research.

3. Curriculum Vita or resume.

4. Applicants are required to participate in an interview with members of the Admissions Committee, either in person, video conference, or by telephone.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1: Nursing Education Track
Subplan 2: Post-D.N.P. to Ph.D. Track

Subplan 1 Requirements: Nursing Education Track
Total Credits Required: 62
View Subplan Disclaimers.

Core Courses – Credits: 33

- NURS 770 - Knowledge Development in Nursing
- NURS 771 - Theory Development in Nursing
- NURS 772 - The Nurse as Leader
- NURS 775 - Statistical Methods for Nursing Research I: Univariate Methods
- NURS 776 - Statistical Methods for Nursing Research II: Multivariate Methods
- NURS 777 - Individualized Study/Dissertation Seminar
- NURS 779 - Writing a Research Grant Application
- NURS 780 - Quantitative Research Methods in Nursing
- NURS 781 - Qualitative Research Methods in Nursing
- NURS 785 - Special Topics in Nursing Research
- NURS 789 - Independent Study
- NURS 748 - Interdisciplinary Team Science

Nursing Education Courses – Credits: 17

- NURS 709 - Teaching and Learning in Nursing Education
- NURS 710 - Course Level Evaluation Strategies for Nurse Educators
- NURS 724 - Developing & Evaluating Curriculum for Nursing Education
- NURS 733 - Nursing Education Practicum I
- NURS 745 - Educational Theory and Philosophy for Nursing
- NURS 790 - Independent Teaching Practicum Seminar
- NURS 791 - Independent Teaching Practicum

Dissertation – Credits: 12

- NURS 797 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-D.N.P. to Ph.D. Track
Total Credits Required: 45
View Subplan Disclaimers.

Course Requirements

Core Courses – Credits: 33

- NURS 770 - Knowledge Development in Nursing
- NURS 771 - Theory Development in Nursing
- NURS 775 - Statistical Methods for Nursing Research I: Univariate Methods
- NURS 776 - Statistical Methods for Nursing Research II: Multivariate Methods
- NURS 777 - Individualized Study/Dissertation Seminar
• NURS 779 - Writing a Research Grant Application
• NURS 780 - Quantitative Research Methods in Nursing
• NURS 781 - Qualitative Research Methods in Nursing
• NURS 785 - Special Topics in Nursing Research
• NURS 789 - Independent Study

Dissertation – Credits: 12
• NURS 797 - Dissertation

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Degree Requirements

1. Complete the minimum credits required.
2. Upon approval of the Graduate Coordinator, students in the Nursing Education Track who completed NURS 709, 710, 724, and 733 or equivalent course work during either their masters’ or postmasters’ education are required to complete a minimum of 50 credits of required course work.
3. A grade point average of 3.0 must be maintained in all courses required for the degree; no grade less than B is acceptable for curricular completion of the program.
4. Upon admission, each student will be assigned to the Ph.D. coordinator as their initial academic advisor who will plan the student’s entire program of study. Approved courses will include those taught in other disciplines but must relate to the student’s area of research.
5. After the student has selected a research topic, the student will select an advisor based on research focus and needs. Upon student recommendation, faculty acceptance, and approval from both the Ph.D. Coordinator and the Graduate College, the advisor will be changed.
6. In consultation with his/her advisor, the student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
7. Upon completion of all required course work other than dissertation and research seminar, each student must take a written and oral Comprehensive Examination that will assess a doctoral student’s readiness to begin the doctoral dissertation. Specifically, the examination will evaluate a student’s written and oral articulation of a possible dissertation research focus or problem.

Upon successful completion of the comprehensive exam, the student achieves candidacy and may register for dissertation credits and begin dissertation proposal development followed by independent dissertation study.

1. Students who do not successfully complete the exam will be placed on academic probation.
2. Failure to successfully complete the exam or meet the requirements of academic probation will result in separation.
3. Upon successfully completing the comprehensive examination, the student submits a dissertation prospectus to his/her committee for approval. After approval, the student submits a “Prospectus Approval Form” to the Graduate College. The student’s major advisor and dissertation committee are responsible for the student’s progression through the dissertation.
4. Upon completion of the dissertation, the student must pass a final oral examination which involves the successful defense of the dissertation study. All dissertation committee members must be present for this examination and may question the student following presentation of the study. The defense will be scheduled and conducted in accordance with the Graduate College’s policies for dissertation completion.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation according to the timeline established by the Graduate College.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Disclaimers

Subplan 1: Nursing Education Track: This program does not result in licensure and certification.

Subplan 2: Post-D.N.P. to Ph.D. Track: This program does not result in licensure and certification.
Master of Science - Nursing

This program is accredited by: CCNE. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Master of Science in Nursing (MSN) program currently offers three tracks: the Family Nurse Practitioner (FNP), the Psychiatric Mental Health Nurse Practitioner (PMHNP), and the Nurse Educator (NE). The roles of the FNP and PMHNP are that of direct care provider. FNPs and PMHNPs practice in clinics, long-term care facilities, hospitals, physician offices, managed care corporations, and private industries. FNPs and PMHNPs collect health histories and perform physical examinations, order and interpret diagnostic tests, diagnose and manage acute and chronic diseases, prescribe medications and treatments, refer to specialists as necessary, provide patient and family counseling and education regarding healthy lifestyle behaviors and self-care skills, and participate in research projects and integrate research findings. The FNP and PMHNP blend some aspects of medicine with nursing, using a holistic nursing perspective. Credentialing examinations, designed by specialty area, are available and required prior to practice in most states. Our FNP and PMHNP tracks offers courses with the option for full-time and part-time study.

The NE track prepares the graduate for a faculty position within a program of nursing or NE position in a clinical setting. The student will increase mastery related to teaching and learning and evaluation strategies, curriculum design, and the use of educational technologies. Via directed study and mentorship with experienced faculty, students will enhance clinical expertise in a selected specialty area. Graduate students will have the opportunity to supervise basic nursing students in clinical practice areas and/or work with NEs in clinical settings in the preparation, delivery and evaluation of educational programs for nurses. The NE track is a year-round program featuring full time and part-time options for program completion.

Program Outcomes of the MSN Degree

Upon completion of the program the graduate will complete the following core outcomes:

1. Integrate scientific findings from health and educational fields to include but not limited to nursing, social sciences, and humanities.
2. Assimilate leadership at the organizational and systems level to advance safe high quality outcomes in clinical or educational settings.
3. Apply continuous quality improvement measures to achieve positive outcomes in clinical or educational settings.
4. Utilize a systematic, scholarly approach to translate, apply, and disseminate evidence based research in clinical or educational settings.
5. Incorporate health related technologies to deliver, coordinate care, and analyze data to improve outcomes.
6. Practice advocacy to improve education, the health of the public, and the profession of nursing.
7. Employ culturally appropriate skills in communicating and collaborating with interdisciplinary teams to achieve positive outcomes in clinical or educational settings.
8. Synthesize social, cultural, financial, legal, ethical, and political influences to advance nursing practice, healthcare, and education.
9. Model the professional role of an advanced practice nurse or nurse educator in daily practice.

Program Outcomes: Family Nurse Practitioner and Psychiatric Mental Health Nurse Practitioner Tracks

1. Competently assess, diagnose, prescribe, evaluate and create a holistic plan of treatment.
2. Articulate the professional role, which includes the ethical code of conduct and scope of advanced practice.
3. Develop and monitor comprehensive, holistic plans of care that address the health promotion and disease prevention needs of diverse client populations.
4. Assess and monitor teaching/learning needs in a diverse client population. Practice ethically in the conduct of research, management and clinical professional practice.

Program Outcomes: Nurse Educator Track

1. Utilize education research to continually improve teaching strategies/skills.
2. Develop a teaching-learning style that facilitates learner development that meets the educational outcomes of the learner.
3. Assess and evaluate at both the course and program level.
4. Function as a leader and change agent in nursing education settings.
5. Participate in scholarship to further knowledge and abilities in nursing education.

View Subplan Disclaimers.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website. Students are admitted to the program in the fall semester of each year based upon competitive selection. Selection is based on the applicant’s qualifications (academic and professional,) the applicant’s strengths, and the number of available openings.
Students make simultaneous application to the Graduate College and the School of Nursing.

Students may take the following courses as a non-degree seeking student. No more than nine credits of course work as a “non-degree seeking” student will be accepted toward the MSN program. Taking the courses below does not guarantee admission into the MSN program.

- NURS 704 Advanced Pathophysiology and Genetics I, 3 credits
- NURS 719R Health & Public Policy for Advanced Practice of Nursing, 3 credits
- NURS 730 Advanced Pharmacology and Genetics II, 3 credits

UNLV School of Nursing will not accept more than six transfer credits from an outside institution which cannot be in addition to “non-degree seeking” credits. Students who are requesting to transfer credits from an outside institution will not receive credit for non-degree seeking courses.

Cumulative Grade Point Average (GPA) of 3.00 or a GPA of 3.00 in the last two years of undergraduate work. The undergraduate nursing course work must have been completed at a nursing program accredited by the National League for Nursing Accrediting Commission or Commission on Collegiate Nursing Education.

Completion of undergraduate courses in nursing research, physical assessment (as currently taught in the undergraduate program of nursing at UNLV), and a course in introductory statistics. These courses must have been completed with a grade of C or better. Students are expected to possess basic computer skills, including word processing. If not, the student should seek that content prior to enrollment.

1. Three letters of recommendation from former instructors or employers that speak to the applicant’s potential to complete the graduate program must be submitted to the school. The evaluators should speak to the student’s professional nursing competency, including application of theory, quality of patient care, independent judgment when appropriate; relationship with team members such as nurses, physicians, and others; leadership skills; and personal responsibility and accountability.

2. A current resumé or curriculum vita.

3. A statement of approximately 300 words describing the student’s professional goals and reason for seeking graduate education.


5. Have practiced as a baccalaureate-prepared registered nurse (RN) for a minimum of 2000 hours prior to beginning coursework for the MSN program.

6. Submit official transcripts for all previous college and professional schools to the Graduate College. Upload unofficial transcripts as part of the Graduate College application. If unofficial transcripts are unavailable, please request official transcripts be sent to the Graduate College.

Students seeking admission to the FNP and PMHNP tracks must submit a resume or vita that demonstrates a minimum of one-year clinical experience as a RN. It is recommended that the most recent years of practice be in the area directly related to the student’s proposed pathway of study.

Students seeking admission into the NE track are required to have completed one year of clinical practice prior to enrollment in the first nursing education practicum course (NURS 733).

1. Accepted applicants must, prior to enrollment, show evidence of current health and malpractice insurance, proof of completion of the Hepatitis B Vaccine series, or a titer indicating presumptive immunity, proof of varicella or a titer indicating presumptive immunity, or a statement from a health care provider indicating that vaccination is contraindicated for health reasons and validation of a negative drug screen and background check. Other immunization and health data requirements are identified in the student handbook.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 3: Psychiatric Mental Health Nurse Practitioner

Subplan 1 Requirements: Family Nurse Practitioner Track

Total Credits Required: 46

View Subplan Disclaimer.

Course Requirements

MSN Core – Credits: 18

- NURS 703 - Advanced Health Assessment
- NURS 704 - Advanced Pathophysiology and Genetics I
- NURS 706 - Nursing Theory and Research
- NURS 711 - Informatics and Quality Improvement
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 730 - Advanced Pharmacology and Genetics II

MSN FNP Required Courses – Credits: 27

- NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
- NURS 714 - Family Theory and Health Promotion
• NURS 740R - FNP Adult and Women’s Health
• NURS 750R - FNP Children and OB
• NURS 752 - Nurse Practitioner Business and Roles
• NURS 760R - FNP Geriatric and Chronic Illness

Culminating Experience - Credits: 1
• NURS 761 - Clinical Synthesis

Degree Requirements
1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
2. Receive a grade of B (3.00) or above in all required cognate and nursing courses. If less than a B, for example a B- (2.70), is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only once.
3. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than B in two courses he/she is ineligible for readmission unless approved by the UNLV Graduate College.
4. If a student fails two courses or has withdrawn from two courses or received a grad less than B in two courses he/she is ineligible for readmission unless approved by the UNLV Graduate College.
5. Complete a minimum of six semester hours in each calendar year.
6. Continuously register for a minimum of three (3) semester hours of credit each semester while working on the thesis or capstone project.
7. In order to maintain clinical competency the FNP student must continuously register for at least three (3) semester hours of NURS 773 (clinical practicum) each semester while working on a culminating project if all required clinical courses are complete.
8. UNLV School of Nursing will not accept more than six transfer credits from an outside institution. The MSN Coordinator and the Graduate College must approve transfer credit.
9. Credit by Challenge Examination: Graduate courses with a 700 number or above may not be challenged for credit.
10. Six-Year Completion Rule: All degree requirements must be completed within six calendar years from the date of matriculation. No credit may be used in an advanced degree program for course work completed more than six calendar years immediately preceding the term in which all degree requirements are completed.
11. Graduation Requirements: Students have a choice of the catalog under which they wish to graduate. They may choose between: 1) the year of official matriculation, or 2) the year of graduation. Students are encouraged to meet the requirements of the current catalog.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Subplan 2 Requirements: Nursing Education Track
Total Credits Required: 33
View Subplan Disclaimers.

Course Requirements

MSN Core – Credits: 18
• NURS 703 - Advanced Health Assessment
• NURS 704 - Advanced Pathophysiology and Genetics I
• NURS 706 - Nursing Theory and Research
• NURS 719R - Health & Public Policy for Advanced Practice of Nursing
• NURS 730 - Advanced Pharmacology and Genetics II

MSN EDU Required Courses – Credits: 14
• NURS 709 - Teaching and Learning in Nursing Education
• NURS 710 - Course Level Evaluation Strategies for Nurse Educators
• NURS 724 - Developing & Evaluating Curriculum for Nursing Education
• NURS 733 - Nursing Education Practicum I
• NURS 743 - Nursing Education Practicum 2

Culminating Experience – Credits: 1
• NURS 753 - Nurse Educator Scholarship Project

Degree Requirements
1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.
2. Receive a grade of B (3.00) or above in all required cognate and nursing courses. If less than a B, for example a B- (2.70), is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only once.
3. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than B is ineligible for readmission unless approved by the UNLV Graduate College.
4. If a student fails two courses or has withdrawn from two courses or received a grade less than B in two courses he/she is ineligible for readmission unless approved by the Graduate College.

5. Complete a minimum of six semester hours in each calendar year.

6. Continuously register for a minimum of three (3) semester hours of credit each semester while working on the thesis, professional paper, or research utilization project.

7. In order to maintain clinical competency the FNP student must continuously register for at least three (3) semester hours of NURS 773 (clinical practicum) each semester while working on the thesis or capstone project if all required clinical courses are complete.

8. UNLV School of Nursing will not accept more than six transfer credits from an outside institution. The MSN Coordinator and the Graduate College must approve transfer credit.

9. Credit by Challenge Examination: Graduate courses with a 700 number or above may not be challenged for credit.

10. Six-Year Completion Rule: All degree requirements must be completed within six calendar years from the date of matriculation. No credit may be used in an advanced degree program for course work completed more than six calendar years immediately preceding the term in which all degree requirements are completed.

11. Graduation Requirements: Students have a choice of the catalog under which they wish to graduate. They may choose between: 1) the year of official matriculation, or 2) the year of graduation. Students are encouraged to meet the requirements of the current catalog.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Subplan 3 Requirements: Psychiatric Mental Health Nurse Practitioner

Total Credits Required: 46

View Subplan Disclaimer.

Course Requirements

MSN Core – Credits: 18

- NURS 703 - Advanced Health Assessment
- NURS 704 - Advanced Pathophysiology and Genetics I
- NURS 706 - Nursing Theory and Research
- NURS 711 - Informatics and Quality Improvement
- NURS 719R - Health & Public Policy for Advanced Practice of Nursing
- NURS 730 - Advanced Pharmacology and Genetics II

MSN PMHNP Required Courses – Credits: 27

- NURS 701 - Diagnostic Reasoning and Clinical Decision Making for the APRN
- NURS 714 - Family Theory and Health Promotion
- NURS 752 - Nurse Practitioner Business and Roles
- NURS 794 - Psychiatric Mental Health Nurse Practitioner I
- NURS 796 - Psychiatric Mental Health Nurse Practitioner II
- NURS 799 - Psychiatric Mental Health Nurse Practitioner III

Culminating Experience - Credits: 1

- NURS 761 - Clinical Synthesis

Degree Requirements

1. Maintain a cumulative grade point average of 3.00 or above each semester enrolled.

2. Receive a grade of B (3.00) or above in all required cognate and nursing courses. If less than a B, for example, a B- (2.70), is earned, the course must be repeated. The student must be in good standing to repeat a course and any required course may be repeated only one time.

3. A student may register for a course only two times. A student who has registered for the same course twice and has withdrawn or received a grade less than B is ineligible for readmission unless approved by the UNLV Graduate College.

4. If a student fails two courses or has withdrawn from two courses or received a grade less than B in two courses he/she is ineligible for readmission unless approved by the Graduate College.

5. Complete a minimum of six semester hours in each calendar year.

6. Continuously register for a minimum of three (3) semester hours of credit each semester while working on the thesis or capstone project.

7. In order to maintain clinical competency the student must continuously register for at least three (3) semester hours of NURS 773 (clinical practicum) each semester while working on a culminating project if all required clinical courses are complete.

8. UNLV School of Nursing will not accept more than six transfer credits from an outside institution. The MSN Coordinator and the Graduate College must approve transfer credit.

9. Credit by Challenge Examination: Graduate courses with a 700 number or above may not be challenged for credit.
10. Six-Year Completion Rule: All degree requirements must be completed within six calendar years from the date of matriculation. No credit may be used in an advanced degree program for course work completed more than six calendar years immediately preceding the term in which all degree requirements are completed.

11. Graduation Requirements: Students have a choice of the catalog under which they wish to graduate. They may choose between: 1) the year of official matriculation, or 2) the year of graduation. Students are encouraged to meet the requirements of the current catalog.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Subplan 3: Psychiatric Mental Health Nurse Practitioner

Plan Disclaimers

- Subplan 1: Family Nurse Practitioner Track: In Nevada, the educational prerequisites for professional licensure or certification for the Master of Science in Nursing Family Nurse Practitioner (MSN Family Nurse Practitioner) are an active Nevada RN License, National Certification as a Family Nurse Practitioner, and graduation from a nationally accredited Nursing Program with a minimum of 500+ hours of direct patient care. The MSN Family Nurse Practitioner track does satisfy those licensure and certification requirements. However, UNLV School of Nursing has not made a determination with respect to the licensure requirements in any other state. As such, MSN Family Nurse Practitioner is not authorized in any other state in which the prospective or enrolled student resides. If you reside in a state other than Nevada, UNLV will refund the application fee in accordance with its procedures. License requirements for other states are being explored. Please check our website for current information about Fall 2019 application.

- Subplan 2: Nursing Education Track: This program does not result in licensure and certification.

- Subplan 3: Psychiatric Mental Health Nurse Practitioner Track: In Nevada, the educational prerequisites for professional licensure or certification for the Master of Science - Nursing Psychiatric Mental Health Nurse Practitioner (MSN PMH Nurse Practitioner) are an active Nevada RN License, National Certification as a Psychiatric Mental Health Nurse Practitioner, and graduation from a nationally accredited Nursing Program with a minimum of 500+ hours of direct patient care. The MSN Psychiatric Mental Health Nurse Practitioner track does satisfy those licensure and certification requirements. However, UNLV School of Nursing has not made a determination with respect to the licensure requirements in any other state. As such, MSN Psychiatric Mental Health Nurse Practitioner is not authorized in any other state in which the prospective or enrolled student resides. If you reside in a state other than Nevada, UNLV will refund the application fee in accordance with its procedures. License requirements for other states are being explored. Please check our website for current information about Fall 2019 application.
NURS 709 - Teaching and Learning in Nursing Education  Credits 3
Analyzes traditional and alternative teaching and learning concepts in the context of the role of nurse educator. Development of a personal philosophy of education and how it connects to teaching/learning expectations. Focus on development of self within the role of nurse educator. Prerequisites: Admission into graduate program or consent of appropriate program coordinator (MSN or PhD)

NURS 710 - Course Level Evaluation Strategies for Nurse Educators  Credits 3
Develops formative/process and summative/outcome evaluations for learning within classroom, clinical, and laboratory settings for use with students, patients or clinical staff. Attention to legal/ethical issues related to evaluation, including cultural bias and accommodation for students with disabilities. Prerequisites: Admission to Graduate Program or permission of appropriate program coordinator (MSN or PhD)

NURS 711 - Informatics and Quality Improvement  Credits 3
Introduces informatics theory and application of quality and safety practices focusing on the impact of informatics on nursing education, healthcare, improving outcomes, and providing cost-effective health care. Prerequisites: NURS 706

NURS 712 - Strategies for Management of Healthcare Systems and Performance Improvement  Credits 3
Focus will be on the analysis of theories and research on individual and organizational change, including incremental and transformational change. Utilization and integration of information and communication theories and technology to improve human performance will also be discussed. Prerequisites: Admission to DNP program, consent of instructor and NURS 708, NURS 711, NURS 719R.

NURS 713 - Health Policy and Population Health  Credits 3
Examines selected health problems for specific populations from a political, cultural, social, educational, educational, environmental, economic and ethical perspective. Analysis of research and public policy relevant to the prevention, treatment and amelioration of the problems, initiate change strategies to impact public policy related to the selected problems. Prerequisites: Admission to Graduate Program or consent of MSN Program Coordinator.

NURS 714 - Family Theory and Health Promotion  Credits 2
Focus on family systems, theories in the context of society and culture. Emphasis on family as a client in holistic assessment and promotion across the lifespan. Prerequisites: Admission to Graduate Program or consent of MSN Program Coordinator.

NURS 715 - Business Management for Nurse Practitioners  Credits 2
Focus is on issues surrounding human and material resource management in an advanced practice setting. The student applies knowledge of health care delivery environments and institutional requirements to explore issues regarding personnel and budgetary management. Prerequisites: Admission to DNP Program and consent of instructor.

NURS 716 - Population Health: Analysis and Evaluation  Credits 3
Prepares students to utilize epidemiology and advanced practice nursing concepts and strategies in the analysis and evaluation of health problems of groups that may be encountered by the nurse practitioner. Prerequisites: Admission to DNP Program, consent of instructor, and NURS 706, NURS 719R, NURS 729R.

NURS 717 - The Accreditation Process  Credits 1
Prepares the student to recognize assessment, data collection, and documentation requirements in preparation for a nursing education program’s accreditation and contribute to writing a self-study report for an accreditation site visit. Prerequisites: Admission to DNP Program, consent of instructor, and NURS 706, NURS 724

NURS 718 - Organizational Management for the Advanced Practice Nurse  Credits 3
Focuses on quality care by advanced practice nurses in a variety of health institutions. Explores advanced nursing practice issues for their organizational factors, reviews methods of assessing clinical outcomes, and explores the relationship of quality care with values, ethics, and models of care.  Prerequisites: Admission to DNP Program, consent of instructor, NURS 706 and NURS 708.

NURS 719R - Health & Public Policy for Advanced Practice of Nursing  Credits 3
Prepares nursing leaders to analyze and influence health policy. Defines problems, critiques potential solutions, assesses political influences, designs interventions for policy-making, and evaluates outcomes. Grading: Letter grade Prerequisites: Admission to the MSN or DNP Program or permission of instructor.

NURS 721 - Principles and Strategies for Clinical Supervision in Nursing  Credits 3
Prepares the student to apply nursing education and clinical supervision concepts and strategies to the clinical supervision of undergraduate and graduate nursing students in a variety of healthcare settings. Prerequisites: Admission to DNP Program, consent of instructor and NURS 703, NURS 706, NURS 709, NURS 724, NURS 729R, NURS 730.

NURS 724 - Developing & Evaluating Curriculum for Nursing Education  Credits 4
Develop curriculum for educational programs within the context of academic or clinical settings. Design curriculum level evaluation of the program that is developed. Focus on connection to larger unit mission, program and level outcomes, use of evaluative theories to guide process and inclusion of stakeholders throughout. Prerequisites: NURS 710 or admission to graduate program or consent of appropriate program coordinator (MSN/PhD).

NURS 726 - Healthcare Issues And The Law  Credits 2
This course will focus on healthcare, governmental, and legal issues and principles as applicable to the role of the nurse executive in complex healthcare environments. Topics of emphasis include patient and employee rights, labor relations, HIPAA, and documentation and reporting requirements for nurses. Prerequisites: Admission to the DNP Program or consent of instructor.

NURS 728R - Analysis of Health Organizations  Credits 2
An introduction to the analysis of the health/human service organization as a particular type of complex organization. Prerequisites: Admission to the DNP Program or permission of instructor.

NURS 729R - Translational Evidence for Healthcare Systems  Credits 3
Critical analysis and synthesis of the literature and available data to determine and implement evidence-based science into healthcare practice. Grading: Letter grade Prerequisites: Acceptance to DNP program or permission of instructor.

NURS 730 - Advanced Pharmacology and Genetics II  Credits 3
Focuses on the clinical application of pharmacologic and pharmacy kinetics principles in the management of selected health problems of adults and children. Focus on drugs commonly used for adults and children in primary care settings. Focus on application of pharmacogenomics and pharmacogenetics to pharmacology. Prerequisites: NURS 704

NURS 733 - Nursing Education Practicum I  Credits 2
Applies strategies and concepts of the nurse educator role in clinical or classroom setting in area of clinical specialty. Prerequisites: NURS 709, NURS 710, and NURS 724.

NURS 735 - Healthcare Outcomes Management  Credits 2
Nurse Executive’s management principles directed at improving direct and indirect patient care outcomes are explored. Emphasizes will include principles of strategic planning and quality improvement, costs, access and quality, information technology, and management of
human resources. Emerging issues in healthcare management and best practice guidelines will also be addressed. Prerequisites: Admission to the DNP Program or consent of instructor.

**NURS 736 - Innovations in Communication:**
**Scholarly Writing**
Credits 1
Apply principles of scholarly and technical writing to document preparation required of nurse executives for use in healthcare, governmental, policy, accreditation, and educational agencies and situations. Prerequisites: Admission to the DNP Program or consent of instructor.

**NURS 737 - Leadership in Organizations and Systems**
Credits 2
Principles of organizational behavior for the nurse executive are emphasized. Topics include attitudes and perceptions, workplace communication, theories and strategies of motivation, trait and behavioral theories of leadership, group dynamics, team building, and organizational development. Prerequisites: Admission to the DNP Program or consent of instructor.

**NURS 738 - Financial Theory and Budget Management in the Healthcare Setting**
Credits 3
Focus on the analysis and application of theories of budget and financial management by nurse executives in healthcare systems. Emphasis will be placed on analysis of healthcare and the economy, provision of value-based service, workload management, budget principles and strategies, and finance and accounting issues. Prerequisites: Admission to the DNP Program or consent of instructor.

**NURS 739 - Biobehavioral Approaches in Nursing Research**
Credits 3
Presents an overview of the common theories and research methodologies necessary to conduct biobehavioral research. The emphasis of the course is on identifying the student's phenomenon of interest, identifying an appropriate theory and developing research strategies to test the biological and behavioral components of this identified phenomenon.

**NURS 740R - FNP Adult and Women's Health**
Credits 6
This course provides the FNP student with the knowledge and skills necessary to manage patients in the primary care setting. Specific content relates to primary care needs of adults, including adolescent through older adults, in screening for, preventing, and/or managing common acute and chronic conditions. Notes: This course has a non-credit clinical component. For more information, please refer to the course syllabus. Prerequisites: NURS 701, NURS 703 and NURS 730

**NURS 741 - Biobehavioral Mechanisms, Pathways, and Measurements**
Credits 3
An overview of behavioral genetics, the basics of cell biology and genetics, and examples of common molecular pathways related to human diseases and symptoms. The course will highlight: (1) biological markers, including genetic and behavioral markers, and biological pathways associated with illnesses; and (2) biological and behavioral measurements. Prerequisites: NURS 739

**NURS 742 - Advanced Nursing Informatics**
Credits 2
Analyze the use of computer and information science and systems to manage and process data, information and knowledge in nursing education. Notes: Nursing specialty serves as the context for course assignments. Prerequisites: Admission to the Graduate Nursing Program or Certificate Program for Nurse Educators.

**NURS 743 - Nursing Education Practicum 2**
Credits 2
Second practicum to apply strategies and concepts of the nurse educator role in clinical or classroom setting in area of practice specialty. Prerequisites: NURS 733.

**NURS 747 - Introduction to Laboratory Procedures for Biobehavioral Studies**
Credits 2
Use of laboratory equipment and performing laboratory procedures to generate biological data to contribute to the advancement of nursing knowledge. Laboratory safety protocols. Prerequisites: NURS 739 and NURS 741 or permission of instructor.

**NURS 748 - Interdisciplinary Team Science**
Credits 3
Explores the basic components of team science and the types of problems appropriate for interdisciplinary teams including core components of team science, assembling an interdisciplinary team, working effectively with interdisciplinary team members, and evaluating team performance. Same as: HSC 701 Grading: Letter grade

**NURS 750R - FNP Children and OB**
Credits 6
Theoretical and clinical concepts of primary and secondary prevention for children and pregnant women. Focus is on health maintenance, teaching, screening, and clinical management of common acute health problems. Emphasis is on wellness management, differential diagnoses, and pharmacologic/non-pharmacologic treatment options (15 hours of clinical per week). Notes: This course has a non-credit clinical component. For more information, please refer to the course syllabus. Prerequisites: NURS 740R

**NURS 752 - Nurse Practitioner Business and Roles**
Credits 3
Explores transitioning into role of nurse practitioner as individual and part of interprofessional care team. Focuses on ethical decision making, legal issues, various practice plans, billing, credentialing, and legal certification requirements for practice. Prerequisites: NURS 704 , NURS 730

**NURS 753 - Nurse Educator Scholarship Project**
Credits 1
Examine literature and best practices to identify a gap in the nursing education setting, provides a plan to address the gap based on change theory, recommends implementation strategies, and creates an evaluation plan. Prerequisites: NURS 706, NURS 711 and NURS 733

**NURS 754 - NE Practicum I: Organizations as Complex Systems**
Credits 3
Focus on the diversity of healthcare systems at the micro and macro levels. Emphasis on infrastructures and processes that support the delivery of healthcare and the application of concepts and principles of complexity science, organizational theory, and strategic planning in practice environments. Prerequisites: Admission to the DNP program or consent of instructor.

**NURS 755 - Nursing Educator Role Development**
Credits 2
Explores the role of the nurse educator including development in the areas of teaching, research, and service. Examines interpersonal dynamics and team-work in academic and practice settings, functioning within institutional expectations, developing a teaching portfolio, legal issues, and future directions in nursing education.

**NURS 756 - NE Practicum II: Organizational Transformation**
Credits 3
Focus on expanding an understanding of the competencies required of the nurse executive role. Examine the infrastructure, processes, and outcomes required for the delivery of patient care in a complex practice environment. Examine the impact of change on micro and macro systems and policy development and application. Prerequisites: Admission to DNP program or consent of instructor.

**NURS 757 - NE Practicum III: Executive Leadership**
Credits 3
Focus on increasing understanding and application of the clinical nurse leader’s role as a change agent, policy advocate, outcomes/care manager, and leader and educator to advance nursing practice and executive oversight in healthcare systems. Prerequisites: Admission to DNP program or consent of instructor.

**NURS 760R - FNP Geriatric and Chronic Illness**
Credits (6-8)
Culminating course focusing on clinical experiences to develop skill and knowledge in providing care to families in primary care settings. Students practice with increasing independence under the supervision of preceptors and clinical instructors. Students will study complex, multiple co-morbidities in all levels of primary, secondary, and tertiary care. Notes: This course has a non-credit clinical component. For more information, please refer to the course syllabus. Prerequisites: NURS 714 and NURS 750R
NURS 761 - Clinical Synthesis Credits 1
This clinical course serves as a culminating experience. Students will work with their clinical preceptor(s) to integrate and apply previously acquired knowledge and skills and will demonstrate achievement of expected program outcomes. Notes: This course has a non-credit clinical component. For more information, please refer to the course syllabus. Grading: Letter grade Prerequisites: NURS 750R

NURS 765 - DNP Residency Credits 4
Residency to apply program concepts and develop and implement strategies for practice-level and/or system-wide practice initiatives to improve the quality of care. Prerequisites: Admission to the DNP Program and NURS 719R, NURS 725, NURS 728R, NURS 729R, NURS 732 and NURS 767.

NURS 767 - Collaboration, Communication & Negotiation for the Nurse Leader Credits 2
The utilization of collaboration, communication and negotiation for implementation of practice models, peer review, practice guidelines, health policy, standards of care, and other scholarly products. Grading: Letter grade Prerequisites: Admission to the DNP Program and or permission of the instructor.

NURS 768 - DNP Forum & Role Transformation Credits 2
Examination of issues and challenges in the DNP role and skills and strategies to conceptualize, articulate, plan, and actualize a career as a nurse leader. Prerequisites: NURS 719R, NURS 725, NURS 728R, NURS 729R, NURS 767, and NURS 772

NURS 770 - Knowledge Development in Nursing Credits 3
Offers a disciplinary context for doctoral study in nursing. The history and evolution of nursing knowledge is examined. Emphasis is on debates regarding what is known and how it is known. Prerequisites: Enrollment in nursing doctoral program.

NURS 771 - Theory Development in Nursing Credits 3
Theoretical frameworks that guide the development of nursing knowledge. The methods and processes of theory development are analyzed. Grading: Letter grade Prerequisites: Enrollment in doctoral program.

NURS 772 - The Nurse as Leader Credits 3
Leadership models as templates for nurse leader. Factors that influence leadership will be explored. Prerequisites: Admission into doctoral (DNP or PhD) program or permission of the instructor.

NURS 773 - Clinical Practicum Credits 3 - 6
Designed for students continuing a clinical practicum while completing other program requirements. Students enrolled in this clinical practicum course must register for at least 3 credits (this translates to at least nine hours of clinical per week) but no more than six credits in any one semester. Notes: May be repeated up to three consecutive semesters but a student may not take more than a total of nine credits. Grading: Letter grade

NURS 774 - Educational Theory and Philosophy for Nursing Credits 3
Explores traditional and contemporary philosophies and theories of education within the context of societal development. Examines the role of educational theory and philosophy within nursing education. Prerequisites: Enrollment in the nursing doctoral program.

NURS 775 - Statistical Methods for Nursing Research I: Univariate Methods Credits 3
Designed to provide students with skills necessary to understand, interpret, and conduct descriptive and univariate analysis relevant to the field of nursing. Students will gain practical experience examining real-world data sets using SPSS software. Prerequisites: Enrollment in the nursing doctoral program; successful completion of introductory graduate level statistics course.

NURS 776 - Statistical Methods for Nursing Research II: Multivariate Methods Credits 3
Focuses on multivariate methods useful for the field of nursing research. Students will be expected to complete a capstone project to explore and implement statistical methods likely to be part of their dissertation projects. Prerequisites: NURS 775 or equivalent; enrollment in the nursing doctoral program.

NURS 777 - Individualized Study/Dissertation Seminar Credits 1 - 5
Individualized study or seminar to facilitate dissertation research. Notes: May be repeated to a maximum of five credits. Prerequisites: Admission into doctoral program or permission of instructor.

NURS 778 - Geographic Information Systems for Health Credits 3
This course introduces the use of epidemiologic methods and modern geographic information systems to analyze the relationships between socioeconomic, physical, geopolitical, and demographic factors and sustainable health. These techniques form the basis of assessment of urban health problems to inform, plan, deliver, and evaluate appropriate interventions to ensure sustainability. Prerequisites: Admission into Doctoral (DNP or PhD) program or permission of instructor.

NURS 779 - Writing a Research Grant Application Credits 3
Involves preparing and writing a research grant application, preparing a research budget and budget justification, writing a project timeline, and proposing an innovative and significant research proposal. Same as: No Grading: Letter Grade Prerequisites: NURS 780 or permission of instructor.

NURS 780 - Quantitative Research Methods in Nursing Credits 3
Examines, quantitative and mixed-method approaches used in nursing research. Grading: Letter grade Prerequisites: Graduate standing in the Nursing PhD program

NURS 781 - Qualitative Research Methods in Nursing Credits 3
Examines qualitative approaches used in nursing research. Prerequisites: NURS 780, Enrollment in the Nursing Ph.D. Program.

NURS 782 - Sustainable Health: Clinical Perspectives Credits 4
This course focuses on air quality, potable water, waste disposal, disasters, and other potentially health-threatening environmental problems that affect health in developing and developed countries. The impact of environmental practices on sustainable health will be examined. Prerequisites: NURS 778, admission into doctoral program or permission of instructor.

NURS 783 - Economics of Sustainable Health Credits 3
Uses an economic sustainability approach to examine health effects of such issues as health insurance and health care financing, acute and chronic disease, and psychosocial issues. The economics of sustainable health in developing and developed countries will be compared. Prerequisites: Admission into doctoral program or permission of instructor.

NURS 784 - Sustainable Health and Public Policy Credits 3
Examines urban health promotion in terms of primary, secondary, and tertiary prevention, with an emphasis on the policy issues and critical processes that shape them. Apply theories to identify urban health promotion issues that are linked to sustainability and identify policy strategies for upstream interventions. Prerequisites: Admission into doctoral program or permission of instructor.

NURS 785 - Special Topics in Nursing Research Credits 2-8
Provides the student with an opportunity for an in-depth exploration of specific aspects of nursing research issues and approaches. Prerequisites: NURS 780 and admission to doctoral program.

NURS 788 - DNP Project Credits 1-6
The student will complete the DNP Project design and implementation. The results will be evaluated culminating with a final written and oral defense. The course may be repeated, but only six credits may be applied to the student’s program. Notes: The course may be repeated, but only six credits may be applied to the student’s program. Prerequisites: Admission to DNP Program and consent of instructor.
NURS 790E - Emergency Nurse Practitioner I: Management of Acute Exacerbation of Chronic Illnesses
The Emergency Nurse Practitioner (ENP) as a member of the interdisciplinary emergency health care team is reviewed within the context of managing patients presenting with acute exacerbations of chronic illnesses of varying complexity. Practice standards for the ENP are explored with emphasis on medical screening and patient classification. Grading: Letter grade Prerequisites: Admission into the Emergency Nurse Practitioner Program.

NURS 791 - Independent Teaching Practicum
Integrates self-reflection of nurse educator abilities, and systematic exploration of the literature to create and execute an individualized learning plan that further refines nurse educator competencies. Same as: No Grading: Letter Grade Prerequisites: NURS 724, NURS 733 and enrollment in nursing doctoral program.

NURS 791E - Emergency Nurse Practitioner II: Management of Acute Illnesses and Injuries
Focus on enhancing evidence-based medical decision making, emphasizing Emergency Nurse Practitioner (ENP) role and practice standards when caring for patients with acute illnesses and injuries. Emphasis on prioritization of patient care based on potential morbidity and mortality as well as patient management and patient disposition in emergency care settings. Grading: Letter grade Prerequisites: NURS 790E

NURS 792 - Emergency Nurse Practitioner III: Management of Critical Illnesses and Injuries
Explore the role of the Emergency Nurse Practitioner (ENP) as an emergency care leader within the context of managing patients who present with critical illnesses and injuries. Focus on increased understanding and application of professional, legal, and ethical practices necessary for the delivery of safe and effective emergency care. Grading: Letter grade Prerequisites: NURS 791E

NURS 793 - Nursing Education Professional Paper
Focuses on a key area of nursing education requiring exploration and development. Students will select a committee to provide review and guidance. The final paper will be adapted and submitted for publication to a professional, peer-reviewed journal. Prerequisites: NURS 706 and NURS 733.

NURS 794 - Psychiatric Mental Health Nurse Practitioner I
Preparation of the clinician for history taking, including foundational neuroscientific principles, standardized scales and tools across the lifespan, psychiatric history, and physical examination. The comprehensive assessment will be utilized in conjunction with current DSM, cultural, genetic, religious, behavioral, and laboratory data in evaluating differential diagnoses and reaching a final diagnosis. Grading: Letter grade Prerequisites: NURS 701, NURS 703 and NURS 730

NURS 796 - Psychiatric Mental Health Nurse Practitioner II
Provide scientific knowledge clinical and neurobiological basis of psychopharmacology and its application for treatment of clients with psychiatric and behavioral disorders across the lifespan considering cultural and religious factors. Focus on advanced concepts in neuroscience, pharmacokinetics, pharmacodynamics and pharmacogenetics of psychotropic drugs in the management of targeted symptoms and disorders. Grading: Letter grade Prerequisites: NURS 794

NURS 797 - Dissertation
Research analysis and writing toward completion of dissertation and subsequent defense. Formerly (NURS 798) Notes: Repeatable for up to 12 credits. Grading: S/F grading only. Prerequisites: Enrollment in nursing doctoral program and consent of instructor.

NURS 798 - Independent Study
Graduate seminar focusing on current developments in nursing practice. Formerly (NURS 797) Notes: Topics vary each semester. Prerequisites: Admission to graduate program and consent of instructor.

NURS 799 - Psychiatric Mental Health Nurse Practitioner III
Present non-pharmacological methodologies and interventions including individual therapies, group therapies, reminiscence therapy, play therapy, family therapies, and complementary and alternative approaches. Exploration of appropriate clinical application of each therapeutic approach. The use of self, the therapist-patient relationship, phases of the therapeutic relationship, and teaching-coaching functions are included. Grading: Letter grade Prerequisites: NURS 796
William F. Harrah College of Hospitality

With its internationally recognized and diverse faculty members, the William F. Harrah College of Hospitality is known for its tradition of offering world-class hospitality programs.

Graduate education in this college is a rewarding experience. There is no better place to learn about the hospitality profession than the entertainment capital of the world-Las Vegas. Here we have a living laboratory with more than 150,000 hotel rooms and hundreds of casinos, restaurants, resorts, sporting events, conventions, trade shows, and leisure and recreation facilities. If you are interested in a graduate degree that will advance your career or prepare you to teach others about the hospitality industry, this is the place for you.

We offer a master’s of science degree in Hotel Administration, a dual MBA and M.S. in Hotel Administration degree, and a dual M.S. in Hotel Administration and M.S. in Management Information Systems degree. We also have an executive master’s degree and a Ph.D. degree in Hospitality Administration. The Ace Denken Co. Ltd. Endowment supports the Ph.D. in Hospitality Administration.

Stowe Shoemaker, Ph.D., Dean
Tony Henthorne, Ph.D., Associate Dean of Academic Affairs
Billy Bai, Ph.D., Associate Dean of Research

Master of Science - Hotel Administration
Executive Master of Hospitality Administration
Doctor of Philosophy - Hospitality Administration
Dual Degree: Master of Business Administration & Master of Science - Hotel Administration
Dual Degree: Master of Science - Hotel Administration & Master of Science - Management Information Systems

Hospitality Faculty

Dean
Stowe Shoemaker - Full Graduate Faculty Professor; B.S., University of Vermont; M.S., University of Massachusetts; Ph.D., Cornell University. Rebel since 2012.

Vice Dean
Daniel McLean - Full Graduate Faculty Director, Master of Hospitality Administration Program; Professor; B.A., Sacramento State College; M.A., Brigham Young University; Ph.D., Kansas State University. Rebel since 2007.

Associate Deans
James A. Busser - Full Graduate Faculty Associate Dean of Academic Affairs; Director, Ph.D. Program; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. Rebel since 1987.
Billy Bai - Full Graduate Faculty Associate Dean of Research and Graduate Studies; Professor; B.A., Nankai University; M.Phil., Hong Kong Polytechnic University; M.S., Ph.D., Purdue University. Rebel since 2001.

Graduate Studies
James A. Busser - Full Graduate Faculty Associate Dean of Academic Affairs; Director, Ph.D. Program; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. Rebel since 1987.

Christine Bergman - Full Graduate Faculty Director, M.S. in Hotel Administration Program; Professor; B.S., Loma Linda University; M.S., University of Arizona; Ph.D., Michigan State University. Rebel since 2005.

Tony Henthorne - Full Graduate Faculty Director, Dual MBA/Master of Science in Hotel Administration Program and Dual Master of Science in Hotel Management/Master of Science in Management Information Systems Program; Professor; B.A., Ouachita Baptist University; M.B.A., University of Arkansas, Fayetteville; Ph.D., University of Mississippi. Rebel since 2008.

Repetti, Toni - Full Graduate Faculty Assistant Professor; B.S., University of Nevada, Las Vegas; M.B.A., Colorado State University; Ph.D., University of Nevada, Las Vegas. Rebel since 2012.

Gael Hancock Manager, Graduate Studies; B.S., Hendrix College; M.S., UNLV. Rebel since 2007.

Graduate Faculty

Abarbanel, Brett - Full Graduate Faculty Assistant Professor; B.S., Brown University; M.S. and Ph.D., University of Nevada, Las Vegas. Rebel since 2016.

Bai, Billy - Full Graduate Faculty Associate Dean of Research and Graduate Studies; Professor; B.A., Nankai University; M.Phil., Hong Kong Polytechnic University; M.S., Ph.D., Purdue University. Rebel since 2001.

Baloglu, Seyhmus - Full Graduate Faculty Professor; B.S., Cukurova University; M.B.A., Hawaii Pacific University; Ph.D., Virginia Polytechnic Institute and State University. Rebel since 1996.

Bergman, Christine - Full Graduate Faculty Director, M.S. in Hotel Administration Program; Professor; B.S., Loma Linda University; M.S., University of Arizona; Ph.D., Michigan State University. Rebel since 2005.

Bernhard, Bo Jason - Full Graduate Faculty Executive Director, International Gaming Institute; Professor; B.A., Harvard University; Ph.D., University of Nevada, Las Vegas. Rebel since 2002.

Braunlich, Carl - Full Graduate Faculty Associate Professor; B.S., M.S., Cornell University; D.B.A., United States International University. Rebel since 2006.

Busser, James A. - Full Graduate Faculty Associate Dean of Academic Affairs; Director, Ph.D. Program; Professor; B.A., Illinois State University; M.S., Ph.D., University of Illinois-Champaign-Urbana. Rebel since 1987.

Cain, Christopher - Full Graduate Faculty Director, PGA Golf Management Program; Associate Professor in Residence; B.S., M.S., The Pennsylvania State University, Ph.D., University of Nevada, Las Vegas. Rebel since 2004.

Chatfield, Hyun Kyung - Full Graduate Faculty Associate Professor; B.S., M.B.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2008.

Chen, Chih-Chien - Full Graduate Faculty Assistant Professor; B.A., National Taiwan University; M.S., California State University; Ph.D., University of Illinois at Urbana-Champaign. Rebel since 2014.

Choi, Choongbeom - Full Graduate Faculty Assistant Professor; B.S., Kyung Hee University; M.S., University of Massachusetts at Amherst; Ph.D., The Pennsylvania State University. Rebel since 2015.

Christianson, David J. - Full Graduate Faculty Associate Professor; B.A., M.R.E., Brigham Young University; Ph.D., Texas A&M University. Rebel since 1977.
Dalbora, Michael C. - Full Graduate Faculty Professor; B.S., Ph.D., Pennsylvania State University; M.B.A., Loyola College. Rebel since 2000.

Erdem, Mehmet - Full Graduate Faculty Associate Professor; B.S., M.S., Purdue University; Ph.D., University of Nevada, Las Vegas. Rebel since 2006.

Gatling, Anthony - Full Graduate Faculty Assistant Professor; B.A., Duquesne University; M.B.A., Wayne State University; D.B.A., Lawrence Technological University. Rebel since 2012.

Henthorne, Tony L. - Full Graduate Faculty Director, Dual MBA/ Master of Science in Hotel Administration Program; and Dual Master of Science in Hotel Administration/Master of Science in Management Information Systems Program; Professor; B.A., Ouachita Baptist University; M.B.A., University of Arkansas, Fayetteville; Ph.D., University of Mississippi. Rebel since 2008.

Kim, Hyelin - Full Graduate Faculty Assistant Professor; B.A., University of Wollongong; M.A., University of New South Wales; M.S., Kyung Hee University; Ph.D., Virginia Tech. Rebel since 2015.

Kim, Jungsun (Sunny) - Full Graduate Faculty Assistant Professor; B.A., Kyung Hee University; M.S., Ph.D., University of Nevada Las Vegas. Rebel since 2012.

Kim, Yen-Soon - Full Graduate Faculty Associate Professor; B.S., M.S., Soochunghyang University; Ph.D., Oklahoma State University. Rebel since 2005.

Kineaid, Clark S. - Full Graduate Faculty Associate Professor; B.A., Southern Utah State College, M.S., Ph.D., University of Nevada, Las Vegas. Rebel since 2004.

Lucas, Anthony - Full Graduate Faculty Professor; B.S., Ball State University; M.B.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2001.

McLean, Daniel - Full Graduate Faculty Vice Dean; Director, Master of Hospitality Administration Program; Professor; B.A., Sacramento State College; M.A., Brigham Young University; Ph.D., Kansas State University. Rebel since 2007.

Montgomery, Rhonda - Full Graduate Faculty Associate Professor; B.S., M.S., Purdue University; Ph.D., University of South Carolina. Rebel since 1995.

Ozdemir, Ozgur – Full Graduate Faculty Assistant Professor; B.S., Bilkent University; M.S., University of Delaware; Ph.D., The Pennsylvania State University. Rebel since 2017.

Raab, Carola - Full Graduate Faculty Professor; B.S., M.B.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2003.

Reppetti, Toni - Full Graduate Faculty Assistant Professor; B.S., University of Nevada, Las Vegas; M.B.A., Colorado State University; Ph.D., University of Nevada, Las Vegas. Rebel since 2012.

Sammons, Gail - Full Graduate Faculty Professor; B.S., North Dakota State University; M.S., University of Nevada, Las Vegas; Ph.D., Pennsylvania State University. Rebel since 1996.

Self, Tim – Full Graduate Faculty Assistant Professor; B.A., California State University, Chico; M.S., University of Alabama; Ph.D., Purdue University. Rebel since 2017

Shoemaker, Stowe - Full Graduate Faculty Dean; Professor; B.S., University of Vermont; M.S., University of Massachusetts; Ph.D., Cornell University. Rebel since 2012.

Shum, Wai-san - Full Graduate Faculty Assistant Professor; B.B.A., Chinese University of Hong Kong; Ph.D., Hong Kong University of Science and Technology. Rebel since 2015.
William F. Harrah College of Hospitality Courses

HOA 502 - Employment Law in the Hospitality Industry Credits 3
Covers all significant state and federal laws applicable to employment relationships found in hospitality businesses and studies effective methods of managing hospitality employees in compliance with applicable employment laws. Students learn to effectively identify, evaluate and resolve employment law issues and liabilities commonly encountered by hospitality businesses. Formerly: HOA 602 Notes: This course is crosslisted with HMD 402. Credit at the 500-level requires additional work.

HOA 507 - Organizational Theory Applied to the Service Industries Credits 3
Focuses on developing management skills through the study and application of theories of human behavior, particularly in service organizations. Areas addressed include: working with/through others, communication, coaching and counseling, providing feedback, goal setting, stress management, creative problem solving, motivation, power, conflict management, and group dynamics and developing effective teams. Formerly: HOA 607 Notes: This course is crosslisted with HMD 407. Credit at the 500-level requires additional work.

HOA 508 - Labor Management Relations Credits 3
Analysis of labor-management relations in the hospitality industry at the employee, unit, and strategic levels. Development of written and verbal communication and problem identification/solving skills via environmental analysis (historical, legal, social and technological). Other areas include: contract negotiation and administration, union-management cooperative efforts, and strategic labor management decision-making. Formerly: HOA 608 Notes: This course is crosslisted with HMD 408. Credit at the 500-level requires additional work.

HOA 509 - Hospitality Security/Risk Credits 3
Analysis of contemporary risk management and security concerns specific to hospitality and gaming industries; encompassing lodging, food and beverage, casinos, events, and clubs. Includes development of security and risk management strategies for asset protection, loss prevention, disaster control, crisis management, industrial safety, casino security, and emergency action planning. Formerly: HOA 510 Notes: This course is crosslisted with HMD 410. Credit at the 500-level requires additional work.

HOA 536 - Mathematics of Casino Games Credits 3
Graduate credit may be obtained for courses designated 500 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Formerly: HOA 636 Notes: Credit at the 500 level normally requires additional work.

HOA 542 - Sociology of Gambling Credits 3
Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. Formerly: HOA 642 Notes: This course is crosslisted with GAM 442, SOC 442 and SOC 642. Credit at the 500 and 600-level requires additional work.

HOA 549 - International Tourism Credits 3
Study of international travel and tourism. Focuses on the economic, social, political, and environmental considerations of international tourism management and development. Formerly: HOA 649 Notes: This course is crosslisted with TCA 449. Credit at the 500-level requires additional work.

HOA 555 - Hotel Administration Seminar Credits 3
Study and discussion of current problems in the hospitality industry using case studies, individual research, and guests. Formerly: HOA 655 Notes: This course is crosslisted with HMD 455. Credit at the 500-level requires additional work.

HOA 570 - Quantitative Methods and Applications in Casino Gaming Credits 3
Develops the techniques and methods for computing the probabilities, expected values, and house percentages of casino games and analyzes the effects of changes in playing rules and payoff odds. Formerly: HOA 670 Notes: This course is crosslisted with GAM 470. Credit at the 500-level requires additional work.

HOA 574 - Seminar in Hotel Research Credits 3
For descriptions of 500-level courses, please consult the current Undergraduate Catalog where they are listed as 400-level courses. Formerly: HOA 674 Notes: Credit at the 500 level usually requires additional work.

HOA 703 - Human Resources Management in the Hospitality Industry Credits 3
Examines the functions of human resource management through readings, cases and applied research with special attention to strategic HR alliances and developing trends.

HOA 705 - Financial Analysis for the Service Industries Credits 3
Problems and cases in applying accounting and financial information to executive decision making in the hospitality industry. Prerequisites: Adequate preparation in accounting.

HOA 711 - Laws of Innkeeping and Food Service Credits 3
Examines through case studies and discussion the modern application of the laws of innkeeping using a historical perspective.

HOA 716 - Principles and Practices in Hotel Management Credits 3
Examination of the mechanisms and techniques employed in the management of hotel/motel companies. Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of public and private operations.

HOA 717 - Principles and Practices in Convention and Meetings Management Credits 3
Examination of the mechanisms and techniques employed in the management of convention and meeting industries. Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of convention and meetings management issues.
HOA 718 - Principles of Casino and Gaming Management
Examination of the mechanisms and techniques employed in the management of casino companies. Comparisons, case studies, and selected topics focus on organization and departmental operations, management processes, manpower development, scheduling, and marketing for a variety of operating systems. Prequisites: Consent of instructor.

HOA 720 - Principles and Practices in Food Service Management
Examination of the mechanisms and techniques employed in the management of food service companies. Comparisons, case studies, and selected topics focus on equity structures, operations, multiunits, marketing, and systems for a variety of public and private operations. Prequisites: HOA 461 or equivalent.

HOA 725 - Information Technology in the Hospitality Industry
Examines the current level of technology uses, explores the potential uses of existing technology, and discusses new technologies in the hospitality industry. Prequisites: Consent of instructor.

HOA 730 - Statistical Analysis for Hospitality Industry
Introduction to the use of statistical techniques with emphasis on applications for the hospitality industry.

HOA 731 - Operational Analysis in Hospitality Management
Research design, operations analysis, and the application of analytical models for the hotel and food service industry. Formerly: (HOA 701) Prequisites: HOA 730

HOA 732 - Advanced Statistics in R for Hospitality and Business
Advanced statistical methods for analyzing time series data, including seasonal and non-seasonal ARIMA modeling. Statistical analysis of panel data (aka longitudinal or cross-sectional time-series data), which is a time series data for several entities, will also be covered. The statistical programming language R will be used in this class. Prequisites: HOA 730 or equivalent.

HOA 735 - Research Methodology
Examination of research methods including: the scientific method, literature review, sampling, statistics, research design, and analytical technique. Notes: If you are following the thesis option, you must take 3 credits of HOA 799R in conjunction with this class. Prequisites: Graduate standing.

HOA 739 - Psychology of Hospitality Marketing
Research in neurology, biology, and cognitive science is changing the way researchers approach how people think and behave. This class introduces students to new ways of viewing cognition and to help graduate students apply these new views as they develop their own research programs.

HOA 740 - Marketing Systems
Development of marketing and advertising systems for hospitality industries based on both the need to create new markets and the need to respond to significant shifts in social and economic patterns.

HOA 741 - Dynamics of Tourism
Examines major components of international and domestic tourism systems, including socio-economic effects. Legal and environmental problems, and managerial and planning functions.

HOA 745 - Human Dynamics and Organizational Leadership
Provides students with knowledge, skills and attitudes necessary to undertake leadership responsibilities in complex organizations. Applies concepts and methodologies from social and behavioral sciences in the analysis of leadership behavior in diverse organizational and community settings. Same as: (EDA 745 and BUS 745)

HOA 751 - Hospitality Service Management
Examines service marketing and management concepts relevant to the hospitality industry and explores how these concepts can be applied to service delivery systems in the hospitality industry.

HOA 760 - Research Seminar in Hotel Administration
Student solutions to situation incidents and case studies in the lodging segment of the hospitality industry. Alternate semesters treat different topics. Notes: May be repeated once with consent of advisor and instructor. Prequisites: Six graduate credits in hotel administration.

HOA 761 - Research Seminar in Food Service Administration
Student solutions to incidents and case studies in the food segment of the hospitality industry. Alternate semesters treat different topics. Notes: May be repeated once with consent of advisor and instructor. Prequisites: Six graduate credits in hotel administration.

HOA 763 - Research Seminar In Casino and Gaming Management
Student solutions to situations, incidents and case studies in the casino segment of the hospitality industry. Alternate semesters treat different topics. Notes: May be repeated once with consent of advisor and instructor. Prequisites: Six graduate credits in hotel administration including HOA 718.

HOA 764 - Research Seminar in Convention Management
Designed around student solutions to situations, incidents, and case studies in convention, meeting, and exhibition management. Comprehensive and application of research to practical and theoretical issues in convention management will be emphasized. Alternate semesters treat different topics. Prequisites: Six graduate credits in hotel administration.

HOA 777 - Critical Issues in Hospitality Management
Provides the opportunity to identify, explore, discuss, and analyze current critical issues and events important to the hospitality industry. Students communicate in research and writing the essence of a critical issue and prepare a verbal presentation to communicate a critical issue. Notes: May be repeated to a maximum of six credits.
**HOA 781 - Independent Study and Research**  
Credits 1 – 3  
Consultation course consisting of individual student effort under guidance of the instructor. Students assigned to or request assignment to specific problems in hospitality management on the basis of interest and preparation. Notes: May be repeated to a maximum of six credits. Prequisites: Consent of instructor and graduate program director.

**HOA 782 - Advanced Independent Study and Research**  
Credits 3  
Consultation course consisting of individual student effort under guidance of the instructor. Students conduct independent research in their major area or work on the analysis of a problem for a hospitality organization. Prequisites: Doctoral student.

**HOA 783 - Internship**  
Credits 1 – 3  
Field experience in a variety of hospitality related industries that focus on management or application of specific skills within a discipline. Must be consistent with the student’s area of specialization and conducted under the guidance of a graduate faculty member. Notes: May be repeated to a maximum of six credits. Prequisites: Consent of instructor and graduate program director.

**HOA 787 - Entrepreneurship in the Hospitality Industry**  
Credits 3  
Comprehensive coverage of various tools, documents, and subject materials utilized to start and maintain a small hospitality business. Includes entrepreneurial perspectives, challenges, characteristics, self-assessment; starting a new venture; developing business idea and business/marketing/financial organizational plans; and financing and managing the new venture. Other issues include legal, franchising, and international entrepreneurship. Prequisites: HOA 703, HOA 740 or MBA 767, HOA 705 or MBA 765.

**HOA 788R - Professional Paper**  
Credits 3  
Professional paper whose contents serve as the focus for the final oral examination. Formerly: HOA 791 Notes: May be enlarged in scope and purpose for thesis credit. Grading: Letter grade

**HOA 789R - Thesis**  
Credits 3 – 6  
Students may enroll in 3 credits per semester. Formerly: HOA 799 Notes: A total of six credits are required for the thesis. Grading: S/F grading Prequisites: HOA 735

**HOA 790 - Special Topics in Hospitality Management**  
Credits 1 – 6  
Eclectic approach to special problem areas of current interest employing individual and group research. Notes: May be repeated once with consent of advisor and instructor. Prequisites: Six graduate credits in hotel administration.

**HOA 794 - Issues and Trends for Hospitality Educators**  
Credits 1  
Explores issues and trends in hospitality education. Formerly: HOA 779 Notes: May be repeated to a maximum of three credits. Prequisites: Doctoral student.

**HOA 795 - Research Seminar in Hospitality Education**  
Credits 3  
Exploration of problems related to programs and techniques of teaching in food service and lodging education, with emphasis upon the means of improving curriculum and instruction. Formerly: HOA 762 Notes: May be repeated once with consent of advisor and instructor. Prequisites: Six graduate credits in hotel administration.

**HOA 796 - Advanced Research Methodology**  
Credits 3  
Fundamental principles of multivariate data analysis, including the mathematics behind the statistical techniques studied. Examination of quantitative research methods including sample size determination, validity, reliability and detection and handling of outliers. Formerly: HOA 736 Prequisites: EPY 722

**HOA 797 - Philosophy of Science in Hospitality Research**  
Credits 3  
Exploration of the philosophical and sociological context of research, including different epistemologies, ontologies, and images of human nature and their influence on conceptualizing and designing research, collecting and understanding data, and disseminating findings. Implications and consequences of alternative approaches and perspectives of inquiry examined. Formerly: HOA 737

**HOA 798R - Readings in Hospitality Management**  
Credits 3  
Provides students with a knowledge and understanding of important research in their area of interest. Formerly: HOA 778 Grading: Letter grade Prequisites: Doctoral student or consent of instructor.

**HOA 799R - Dissertation**  
Credits 3 – 12  
Dissertation Research. Formerly: HOA 798 Notes: 3-12 credits in three-credit increments. Grading: S/F grading Prequisites: Graduate standing in Ph.D. program and consent of advisor.

**MHA 538 - Fundamentals of Casino Operations**  
Credits 3  
Provides students with basic casino table games and slot department management operational procedures. It shows the relationship between these departments and other hotel/casino departments. By the end of this course, students will understand state of the art casino operations management methods.

**MHA 603 - Human Resources and Behavior in the Hospitality Industry**  
Credits 3  
Examines the functions of human resource management through readings, cases and applied research with special attention to strategic HR alliances and developing trends. Formerly: MHA 703

**MHA 604 - Hospitality Organizational Behavior Issues**  
Credits 3  
This course focuses on developing management skills through the study and application of theories of human behavior, particularly in service organizations. Areas addressed include: working with/through others, communication, coaching and counseling, providing feedback, goal setting, stress management, creative problem solving, motivation, power, conflict management, group dynamics and developing effective teams.

**MHA 605 - Financial Analysis for the Service Industries**  
Credits 3  
Problems and cases in applying accounting and financial information to executive decision making in the hospitality industry. Formerly: MHA 705

**MHA 606 - Hospitality Revenue Management**  
Credits 3  
This course deals with the theory and practice of operational and strategic revenue management policy and problems in the hospitality industry. It briefly examines the critical areas of yield management and revenue maximization in the context of hospitality and tourism industry. Emphasis is placed upon current issues in revenue management systems. Formerly: MHA 706
MHA 607 - Hospitality Industry Cost Control Credits 3
Course examines: types and nature of costs in hotels and restaurants, the role of cost control in gaining competitive advantage, the application of food and beverage cost control methods, cost forecasting approaches, Cost Volume Profit analyses, Activity Based Cost, and an introduction to energy and utility cost control.

MHA 608 - Casino Accounting and Auditing Credits 3
Detailed examination of accounting systems, procedures, and controls particular to the gaming industry as required by both management and government for internal auditing, financial reporting, and managerial control. Prequisites: MHA 618, enrollment in the Gaming Management Subplan.

MHA 611 - Laws of Innkeeping and Food Service Credits 3
Examines through case studies and discussion the modern application of the laws of innkeeping using a historical perspective. Formerly: MHA 711

MHA 616 - Principles and Practices in Hospitality Management Credits 3
Examination of the management techniques employed in hospitality companies. Comparisons, case studies, and selected topics focus on management systems for a variety of public and private operations. Formerly: MHA 716

MHA 617 - Principles and Practices in Convention and Meetings Management Credits 3
Examination of the mechanisms and techniques employed in the management of convention and meeting industries. Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of convention and meetings management issues. Formerly: MHA 717

MHA 618 - Gaming Operations Credits 3
Examination of the history, developments, mechanisms, and techniques employed in the management of casino companies. Comparisons, case studies, and selected topics focus on organization and department policies, processes, management, gaming, contracts, and marketing for a variety of operating structures. Formerly: MHA 718

MHA 620 - Principles and Practices in Food Service Management Credits 3
Examination of the mechanisms and techniques employed in the management of food service companies. Comparisons, case studies, and selected topics focus on equity structures, operations, multiunits, marketing, and systems for a variety of public and private operations. Formerly: MHA 720

MHA 621 - Gaming, Government & Community Relations Credits 3
An examination of the relationships between the gaming industry and local, regional, and national governments and communities, focusing on expectations, requirements, economic and social impact, and quality of life. Prequisites: Enrollment in the Gaming Management Subplan.

MHA 622 - Sociology of Gambling Credits 3
Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. Prequisites: Enrollment in the Gaming Management Subplan.

MHA 623 - Internet and Mobile Gaming Credits 3
Examines the major components of internet gaming; the history of internet-based casino gaming; the emergence of mobile casino gaming; the current regulatory issues with both internet-based and mobile gaming; current trends; and the future of internet-based and mobile casino gaming. Prequisites: Enrollment in the Gaming Management Subplan.

MHA 624 - Gaming Regulations, Law and Compliance Credits 3
Detailed investigation of the gaming industry with an emphasis on policies and procedures governing gaming activities that have developed through legislation, court decisions, and regulations. Prequisites: Enrollment in the Gaming Management Subplan.

MHA 625 - Information Technology in the Hospitality Industry Credits 3
Examines the current level of technology use, explores the potential uses of existing technology, and discusses new technologies in the hospitality industry. Formerly: MHA 725

MHA 626 - Sustainability in the Hospitality Industry Credits 3
An examination of sustainability practices in hotels, restaurants, and other hospitality facilities. Topics covered include material use, waste reduction, and recycling; water conservation; energy management; site selection and green building design, and indoor environmental quality issues. A special emphasis is placed on certifications and certifying organizations. Formerly: MHA 726

MHA 627 - Gaming Technologies Credits 3
Examination of the current level of casino gaming technology use, the potential uses of existing technology, and emerging technologies in the casino industry with an emphasis on the role of technology as a strategic tool in casino operations. Prequisites: MHA 618, enrollment in the Gaming Management Subplan.

MHA 629 - Statistical Analysis In Gaming Credits 3
Techniques and methods for computing the probabilities, expected values, and house percentages of casino games and analysis of the effects of changes in playing rules and payoff odds. Prequisites: Enrollment in the Gaming Management Subplan.

MHA 631 - Operational Analysis in Hospitality Management Credits 3
Research design, operations analysis, and the application of analytical models for the hotel and food service industry. Formerly: MHA 601, MHA 731

MHA 635 - Research Methodology Credits 3
Examination of research methods including the scientific method, literature review, sampling, statistics, research design and analytical technique. Formerly: MHA 735 Prequisites: Six or more credits in the MHA program.

MHA 638* - Database Marketing for Hospitality and Tourism Credits 3
Provides students with a working knowledge of database marketing in the hospitality and tourism industries. Database marketing is an information-driven process of compiling detailed information about customers, leads, and prospects and using that information to segment and target individual customers with appropriate sales-oriented materials.
MHA 639 - Casino Marketing Credits 3
Examination of marketing theories and practices for casinos with an emphasis on key strategies, tactics, and techniques useful in developing, expanding, and maintaining demand for casino properties, including customer relationship marketing (CRM), social media, player promotions, and guest incentives. Prerequisites: MHA 618, enrollment in the Gaming Management Subplan.

MHA 640 - Marketing Systems Credits 3
Development of marketing and advertising systems for hospitality industries based on both the need to create new markets and the need to respond to significant shifts in social and economic patterns. Formerly: MHA 740

MHA 641 - Dynamics of Tourism Credits 3
Examines major components of international and domestic tourism systems, including socio-economic effects. Legal and environmental problems, and managerial and planning functions. Formerly: MHA 741

MHA 642 - Customer Development Strategies for Casino & Gaming Credits 3
Analyzing marketing and promotional strategies utilized by the casino industry and developing understanding of valutative techniques that facilitate managerial decision making concerning these strategies. Formerly: MHA 742

MHA 644 - Online Training and Development Credits 3
Concepts, principles, and techniques of online training. Emphasizes transfer of knowledge acquisition via online learning. Development of online training programs. Formerly: MHA 744

MHA 645 - Human Dynamics and Organizational Leadership Credits 3
Provides students with knowledge, skills and attitudes necessary to undertake leadership responsibilities in complex organizations. Applies concepts and methodologies from social and behavioral sciences in the analysis of leadership behavior in diverse organizational and community settings. Formerly: MHA 745

MHA 646 - Essentials of Negotiation in the Hospitality Industry Credits 3
This course explores the major concepts and theories of the psychology of bargaining and negotiation, and the dynamics of interpersonal and inter-group conflict and its resolution. Course concepts will be applied to situations within the hospitality industry. Formerly: MHA 746

MHA 647 - Intercultural Communication in the Hospitality Industry Credits 3
Explores communication, culture, and social dynamics internal and external to hospitality organizations within an international context. Formerly: MHA 747

MHA 651 - Hospitality Service Management Credits 3
Examines service marketing and management concepts relevant to the hospitality industry and explores how these concepts can be applied to service delivery systems in the hospitality industry. Formerly: MHA 751

MHA 653 - Event Management Credits 3
This course offers an analysis of the fundamental issues that arise in managing meetings, conferences, and conventions, and the skills, tools, and resources necessary for site selection, program planning and management, exhibits, selection and use of facility, volunteers, and budget management. Formerly: MHA 753

MHA 654 - Risk Management: Safety and Security in Hospitality and Tourism Credits 3
Natural disasters, terrorism, fire, boycotts, lawsuits and transportation or utility interruptions can have negative effects on hospitality and tourism. This course addresses preparing for, managing, and recovering from major and minor realized risks. Managing risk using risk management teams, contingency plans, contract language, and insurance will be discussed. Formerly: MHA 754

MHA 660 - Research Seminar in Hotel Administration Credits 3
Student solutions to situation incidents and case studies in the lodging segment of the hospitality industry. Alternate semesters treat different topics. Formerly: MHA 760

MHA 661 - Research Seminar in Food Service Administration Credits 3
Student solutions to incidents and case studies in the food segment of the hospitality industry. Alternate semesters treat different topics. Formerly: MHA 761

MHA 662 - Seminar in Hospitality Education Credits 3
This course covers: overview of the history, organization, and administration of higher education and hospitality management programs, differences between types of degree programs and sources of funding, improving curriculum and instruction for both classroom and distance learning. The course will also investigate the role of faculty members in non-instructional activities.

MHA 663 - Research Seminar in Casino and Gaming Management Credits 3
Student solutions to situations, incidents and case studies in the casino segment of the hospitality industry. Alternate semesters treat different topics. Formerly: MHA 763

MHA 675 - Seminar in Hospitality Finance Credits 3
Analysis and application of financial theories to hospitality firms and industry. Formerly: MHA 775

MHA 681 - Independent Study and Research Credits 1-3
Consultation course consisting of individual student effort under guidance of the instructor. Students assigned to or request assignment to specific problems in hospitality management on the basis of interest and preparation. Formerly: MHA 781

MHA 690 - Special Topics in Hospitality Management Credits 3
Eclectic approach to special problem areas of current interest employing individual and group research. Formerly: MHA 790
Notes: May be repeated multiple times.
MHA 787 - Entrepreneurship in the Hospitality Industry Credits 3
Comprehensive coverage of various tools, documents, and subject materials utilized to start and maintain a small hospitality business. Includes entrepreneurial perspectives, challenges, characteristics, self-assessment; starting a new venture; developing business idea and business/marketing/financial organizational plans; and financing and managing the new venture. Other issues include legal, franchising, and international entrepreneurship. Prequisites: MHA 603, MHA 605, MHA 651, MHA 640.

MHA 788 - Professional Paper Credits 3
Professional paper whose contents serve as a capstone research experience based on a current hospitality topic or problem in the industry. The outcome of this final requirement for the degree is a publishable paper. Formerly: MHA 691, MHA 791, MHA 688 Prequisites: MHA 635

SLS 550 - Administration of Recreation and Leisure Services Credits 3
Comprehensive examination of the philosophical, legal, financial, and administrative foundations necessary for management personnel in a public, not-for-profit or commercial leisure service organization. Formerly: SLS 650

SLS 701 - Independent Study Credits 1 – 3
Independent study of a selected topic in sport or leisure service management or leisure behavior. Notes: May be repeated to a maximum of six credits. Prequisites: Consent of instructor.

SLS 702 - Management in Sport and Leisure Service Organizations Credits 3
Utilizes management theory in conjunction with theory of sport and leisure behavior to develop a philosophy of administration applicable to sport and leisure service organizations.

SLS 703 - Management Analysis of Sport and Leisure Service Organizations Credits 3
Analysis of how the financial resources needed to operate sport and leisure service facilities and programs are acquired and marshaled to realize organizational goals. Marketing strategies and revenue source specific to sport and leisure services analyzed and discussed. Prequisites: SLS 702

SLS 704 - Management Internship Credits 3
Structured management internship in a sport or leisure service organization which focuses on specific administrative functions under the supervision of an agency manager and a university advisor. Prequisites: SLS 703 and approval of student’s advisor.

SLS 716 - Social Psychology of Sport and Leisure Credits 3
Introduces and examines the theories of sport and leisure behavior from a social psychological perspective. Issues and outcomes of involvement in sport and leisure activities for the individual as well as organized groups.

SLS 717 - Law and Liability in Sport and Leisure Services Credits 3
Explores the legal principles and rules of law affecting the administration of recreation, sports and athletic programs. Emphasis on risk management theory, safety principles, insurance concepts and liability issues. Litigation trends identified and procedures outlined to minimize legal risks.

SLS 718 - Programming for Sport and Leisure Service Organizations Credits 3
Theoretical and conceptual aspects of comprehensive programming for sport and leisure service organizations. Includes program development theories, program design concepts, advertising, promotion and evaluation procedures.

SLS 748 - Professional Paper Credits 3
Under the direction of a faculty advisor, the student develops a written treatise detailing the application of a principle or theory to the solution of a current problem of professional practice in the management of sport and leisure service. Grading: S/F grading only. Prequisites: Consent of instructor.

SLS 749 - Thesis Credits 3
Under the direction of a faculty advisor, students develop a written treatise detailing their methodical investigation and exposition of a theory or principle related to the management of sport and leisure service. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only. Prequisites: Consent of instructor.

Doctor of Philosophy - Hospitality Administration

Plan Description
The Ph.D. program is a multi-conceptual and research-based degree program designed to produce top quality hospitality and tourism educators and researchers. It focuses on preparing students to be excellent teachers at the university level, and engages them in scholarly research in hospitality and tourism management. Upon graduation, students will be able to teach and conduct research at the university level, and work at industry research institutions. The Ph.D. program is highly competitive, seeking motivated individuals who are committed to pursuing academic and research careers in hospitality and tourism. The program is partly supported by the Ace Denken Co. Ltd. Endowment.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.
The student must satisfy the minimum admission requirements of the Graduate College and the William F. Harrah College of Hospitality including:

1. Completed online application found on the Graduate College home page and payment of required application fee.

2. Official transcripts sent directly from all educational institution(s) attended after high school are required by both the Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office. Unofficial transcripts may be uploaded to the online application. Please note: it is a requirement of the UNLV Graduate College that students with class
credits and/or degrees from educational institutions outside the United States must provide a course-by-course evaluation of those credentials by a NACES Evaluation Agency. This is to obtain an evaluation of the courses, verification of degrees, and establish accreditation of the schools and/or universities. A copy of this evaluation should be sent to both the UNLV Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office.

3. Master’s degree from an accredited institution with at least 24 credits in hotel administration, food service administration, tourism-convention administration, or a closely aligned field.

4. An overall GPA of 3.00 on a 4.00 scale for all work completed at the post-baccalaureate level.

5. Three or more years of management/supervisory experience in the hospitality industry.

6. GRE or GMAT test results sent directly from the testing center to the William F. Harrah College of Hospitality Graduate Studies Office. Students must make a satisfactory score on the Graduate Record Examination (GRE), UNLV institution code, 4861, William F. Harrah College of Hospitality Code 7549, with a minimum score of 155 on the quantitative portion and 148 on the verbal portion; or the Graduate Management Admission Test (GMAT), UNLV institution code 71T, William F. Harrah College of Hospitality code 71T-TD-73, with a minimum score of 550 with at least 25% on the verbal portion.

7. A statement of 500 words outlining what the applicant expects to accomplish during the Ph.D. program and the applicant’s particular research interests.

8. Current resume (must have three or more years of management/supervisory experience in the hospitality industry).

9. Three Letters of Recommendation are required. It is preferred that these letters come from two college faculty members and one current or former employer. However, recommendations from one faculty member and two employers will suffice.

10. Applicants may be required to participate in an online recorded video, Skype, or other personal interview at no cost to the applicant.

11. A master’s level thesis or the equivalent.

12. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Application Deadline: Refer to the Graduate College website for specific deadlines.

This program does not admit for the spring semester. All documentation and application materials must be in the Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office by the deadline for the application to be considered.

Plan Requirements
Total Credits Required: 60

Course Requirements

Required Course – Credits: 3
• HOA 794 - Issues and Trends for Hospitality Educators

Additional Required Courses – Credits: 18
• HOA 735 - Research Methodology
• HOA 795 - Research Seminar in Hospitality Education
• HOA 796 - Advanced Research Methodology
• HOA 797 - Philosophy of Science in Hospitality Research
• HOA 798R - Readings in Hospitality Management
• EPY 718 - Qualitative Research Methodologies

Required Statistical Analysis Courses – Credits: 6
Complete two of the following courses:
• STA 713 - Experimental Design
• STA 715 - Multivariate Statistical Methods
• EPY 722 - Inferential Statistics and Experimental Design
• EPY 732 - Multiple Regression
• EPY 733 - Multivariate Statistics
• EPY 734 - Structural Equation Modeling
• EAB 763 - Linear Statistical Models
• EAB 783 - Multivariate Methods for the Health Sciences
• PSC 702 - Advanced Quantitative Methods I

Major and Minor Area of Study – Credits: 15
Complete five courses authorized by your Chair and Academic Advisor.

Major Area of Study: Three 3-credit courses

Minor Area of Study: Two 3-credit courses

Electives – Credits: 6
Courses used to fulfill prerequisite requirements can count toward these elective credits if the courses are at the 700-level or higher.

Dissertation – Credits: 12
• HOA 799R - Dissertation
Degree Requirements

1. Must have at least 24 credits in the William F. Harrah College of Hospitality (excluding dissertation credits) and 12 credits outside of the William F. Harrah College of Hospitality. All credits must be from 700-level courses.

2. Successful completion of all courses approved on the student’s graduate program of study with a 3.00 GPA or better. Any credits completed with less than a 2.00 GPA may result in the student’s termination from the program.

3. After the first year of course work, but before the end of the fourth semester, a Qualifying Exam (Q-Exam) must be passed:
   1. The Q-Exam is based on the material covered in two courses required of all students over their first two semesters in the program: HOA 730 – Statistical Analysis for Hospitality and HOA 735 – Research Methodology; or their equivalent.
   2. The Director of the Ph.D. Program solicits exam questions from the faculty teaching the required courses, conducts the exam, and distributes the completed exams to the faculty who wrote the questions for grading. The final grade determination will include a review by the Director of the Ph.D. Program.
   3. Students will be given two opportunities in the college computer lab without resources to pass the exam at a standard criterion of 75% on each question.
      1. The first administration of the exam (two-½ days) will follow students second semester in the program (May). Students that are determined to be below standard on one question of the entire exam will be given the opportunity to rewrite that question in a second sitting one week following the rewrite decision.
      2. If the student does not meet the standard on the rewrite, the student will need to retake an entire new exam at a second administration (August) and will be placed on probation. Students retaking the exam at a second administration must meet the standard on all questions. There is not a rewrite option for those retaking the exam. Students who do not pass the exam on either attempt or do not meet their conditions of probation will be recommended to the Graduate College for separation from the Ph.D. program.
   4. The student must file an approved degree plan before the start of the third semester after admission to the program. The degree plan must be developed in consultation with the student’s Doctoral Advising Committee Chair, the Doctoral Advising Committee, the Director of the Ph.D. Program, and the Executive Director of Graduate Studies and Research.
   5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
   6. Simultaneous to the last semester of content-related course work (non-dissertation credits), the student must pass a major and minor area comprehensive exam. This exam is designed by the student’s Doctoral Advising Committee under the direction of the Doctoral Advising Chair. This exam must be taken within five years of the admission date.
      1. The form of the written comprehensive exam shall be committee-driven. That is, it is up to each member of the committee to decide how she or he wishes the student to demonstrate content mastery. However, a minimum of one question should address each of the student’s major and minor areas of study as indicated in their approved program of study. Two to three questions must be solicited from each member of the committee. In the event that there is redundancy among the questions, the chair should request a replacement question(s) from the appropriate committee member(s). Should the committee members decide to do so, they may solicit questions from other graduate faculty from whom the student has taken class. Inclusion of any questions non-committee members submit is at the discretion of the committee.
      2. The written comprehensive exam will be offered two times per year at the beginning of the fall and spring semesters and may be completed off campus. After the committee chair has finalized the exam, it will be submitted to the Director of the Ph.D. Program. The Director will release the exam to the student at a designated date with a return of the completed exam to the Director within 48 hours. The Director will then disseminate the exam to the committee chair, who will distribute to committee members. The grading system for the exam will be a satisfactory – unsatisfactory. Each committee member determines whether the student’s
answers are satisfactory. The Director will inform the student of unsatisfactory answers that require a rewrite. The rewrite will follow the same procedure as the original exam and in consultation with the student will take place within 2 weeks of the unsatisfactory notification. Unsatisfactory answers require a rewrite by the students within 48 hours after receiving feedback from faculty. Students who are not satisfactory after the rewrite will be placed on probation and will need to retake the comprehensive exam at the next available sitting. Students retaking the comprehensive exam the second time must be satisfactory on all questions. There is not a rewrite option for those retaking the exam. Students who are not satisfactory on either attempt or do not meet the conditions of probation will be recommended to the Graduate College for separation from the Ph.D. program. The committee chair shall inform the Director of the Ph.D. Program of the student’s grade.

1. The student must successfully write and orally defend his/her dissertation proposal and the completed dissertation. The dissertation must be of substantial quality and length, original in thought and research, and make a significant contribution to the body of knowledge in the field of hospitality administration. Upon approval of the Doctoral Advising Committee, the student will orally defend both the dissertation proposal and the completed dissertation.

2. All students admitted to the program may spend the equivalent of two semesters completing an approved internship if necessary.

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

---

**Executive Master of Hospitality Administration**

**Plan Description**

The Master’s of Hospitality Administration (MHA) degree is a 30-credit program designed to bring hospitality executives together to learn the latest management and leadership techniques in an executive format, via the Internet and other media. Demand determines the class schedule for the program.

Students must choose one of two subplans: 1) Hospitality Management, and 2) Gaming Management. Students must specify the program option as part of the admission process.

Courses are taught entirely online—there is no requirement that any student come to the main UNLV campus. Courses are offered throughout the year in five eight-week sessions. Two sessions are scheduled during the fall and spring semesters and one during the summer semester. At least two required courses and two elective courses are offered during each session. The professional paper and entrepreneurship classes are offered during the regular 16-weeks of the Fall and Spring. The professional paper should adhere to the American Psychological Association’s current publication manual regarding writing style and format.

In addition to regular tuition and fees, this program has an additional fee of $510 per credit to cover the cost of delivery in an executive format. For more information, contact the program coordinator at (702) 895-5430.

**For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.**

**Plan Admission Requirements**

**Application deadlines**

Applications available on the UNLV Graduate College website.

The student must satisfy the following admission requirements of the Graduate College and the William F. Harrah College of Hospitality.

1. A baccalaureate degree from an accredited college or university with an overall undergraduate grade point average of at least 2.75 on a 4.00 scale, or 3.00 or higher in the last two years of study.

2. A minimum of three years of full-time management experience in the hospitality industry.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

**IMPORTANT NOTE FOR INTERNATIONAL STUDENTS:** Because this program is offered totally online and is available anywhere in the world, UNLV cannot issue an I-20 and you cannot obtain a student visa to come to the United States based upon enrollment in the Master’s of Hospitality Administration Program.
The following information to be submitted electronically to the Graduate College with your application:

1. Completed online application found on the Graduate College home page.
2. Unofficial transcripts for all post-secondary schools attended.
3. Payment of application fees.
4. A brief essay of approximately 500 words outlining your career goals and how your hospitality employment background has prepared you for graduate study.
5. Resume with employer references. The resume should clearly indicate job titles, place and date of employment and specific job responsibilities.
6. Three or more years of full-time experience in a management or administrative capacity in the hospitality industry.
7. Two letters of recommendation: You may upload contact information (name, address, phone, email) for a current or former employer and a college faculty member able to evaluate your potential for success in a graduate program (two recommendations required). If you are no longer in touch with faculty members, two letters from employers will suffice. Your contacts will be sent an email with information on how to complete the online recommendation or where to mail a submission, or you may request that your recommenders email their letters directly to hotelgrad@unlv.edu.

The following information to be submitted directly to the William F. Harrah College of Hospitality Graduate Studies Office and the Graduate College:

1. In addition to the electronic transcript(s) submitted to the Graduate College with your application, official copies of your transcripts must be mailed directly from the educational institution(s) to both the Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office.
2. Evaluation of Foreign Credentials (see #4 above)

Notes: Students are not required to take the GRE or the GMAT for entry into this program. Applicants may be required to participate in an online recorded video, Skype, or other personal interview at no cost to the applicant.

We will accept email submissions of the essay, resume and recommendation letters. However, recommendation letters must be emailed directly from the professor or employer, not forwarded by the prospective student.

Application Deadlines

Refer to the Graduate College website for specific deadlines.

All required documentation and application materials must be received by the UNLV Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office by the listed deadline for the application to be considered.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Subplan 1: Hospitality Management
Subplan 2: Gaming Management

Subplan 1: Hospitality Management
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 15
- MHA 603 - Human Resources and Behavior in the Hospitality Industry
- MHA 605 - Financial Analysis for the Service Industries
- MHA 635 - Research Methodology
- MHA 640 - Marketing Systems
- MHA 651 - Hospitality Service Management

Elective Courses – Credits: 12
Complete four additional MHA courses:
- MHA 538 - Fundamentals of Casino Operations
- MHA 604 - Hospitality Organizational Behavior Issues
- MHA 606 - Hospitality Revenue Management
- MHA 607 - Hospitality Industry Cost Control
- MHA 611 - Laws of Innkeeping and Food Service
- MHA 616 - Principles and Practices in Hospitality Management
- MHA 617 - Principles and Practices in Convention and Meetings Management
- MHA 618 - Gaming Operations
- MHA 620 - Principles and Practices in Food Service Management
- MHA 625 - Information Technology in the Hospitality Industry
- MHA 626 - Sustainability in the Hospitality Industry
- MHA 631 - Operational Analysis in Hospitality Management
- MHA 638* - Database Marketing for Hospitality and Tourism
- MHA 641 - Dynamics of Tourism
- MHA 642 - Customer Development Strategies for Casino & Gaming
- MHA 644 - Online Training and Development
- MHA 645 - Human Dynamics and Organizational Leadership
• MHA 646 - Essentials of Negotiation in the Hospitality Industry
• MHA 647 - Intercultural Communication in the Hospitality Industry
• MHA 653 - Event Management
• MHA 654 - Risk Management: Safety and Security in Hospitality and Tourism
• MHA 660 - Research Seminar in Hotel Administration
• MHA 661 - Research Seminar in Food Service Administration
• MHA 662 - Seminar in Hospitality Education
• MHA 663 - Research Seminar in Casino and Gaming Management
• MHA 675 - Seminar in Hospitality Finance
• MHA 681 - Independent Study and Research
• MHA 690 - Special Topics in Hospitality Management

Culminating Experience – Credits: 3
Complete either a professional paper or hospitality entrepreneurship.
  • MHA 787 - Entrepreneurship in the Hospitality Industry
  • MHA 788 - Professional Paper

Degree Requirements

1. Students must successfully complete 30 credit hours of 500-/600-level course work in the MHA Hospitality Management subplan in the William F. Harrah College of Hospitality. These credits will come from four elective courses, five required courses and a professional paper.

2. Students may take courses in any order with three exceptions: six or more credit hours must be completed before MHA 635 – Research Methods can be taken; MHA 635 – Research Methodology must be taken prior to the culminating experience, and it is recommended that the culminating experience be taken in the last semester of study. Students can schedule their individual programs with the MHA academic advisor.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2: Gaming Management
Total Credits Required: 30

Course Requirements

Required Course – Credits: 12
  • MHA 603 - Human Resources and Behavior in the Hospitality Industry
  • MHA 605 - Financial Analysis for the Service Industries

Elective Courses – Credits: 12
  • MHA 608 - Casino Accounting and Auditing
  • MHA 621 - Gaming, Government & Community Relations
  • MHA 622 - Sociology of Gambling
  • MHA 623 - Internet and Mobile Gaming
  • MHA 624 - Gaming Regulations, Law and Compliance
  • MHA 627 - Gaming Technologies
  • MHA 632 - Statistical Analysis in Gaming

Culminating Experience – Credits: 3
• MHA 788 - Professional Paper

Degree Requirements

1. Students must successfully complete 30 credit hours of 500-/600-level course work in the MHA Gaming Management Subplan in the William F. Harrah College of Hospitality. These credits will come from four elective courses, five required courses and a professional paper.

2. Students may take courses in any order with these exceptions: six or more credit hours must be completed before MHA 635 – Research Methods can be taken; MHA 635 – Research Methodology must be taken prior to the culminating experience; MHA 608 Casino Accounting and Auditing, MHA 627 Gaming Technologies, and MHA 639 Casino Marketing have MHA 618 Casino Operations as a prerequisite; it is recommended that the culminating experience be taken in the last semester of study. Students can schedule their individual programs with the MHA academic advisor.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a culminating experience.
Master of Science - Hotel Administration

Plan Description

The 36-hour Master of Science – Hotel Administration degree program will prepare you for a successful career as an upper-level executive in the hospitality industry or as an instructor/researcher in a hospitality education program.

Students have the opportunity to conduct research on a subject that interests them by writing a thesis or a professional paper. This decision will be based upon the student’s goals and consultation with an academic advisor. Copies of the completed thesis must meet the guidelines of the UNLV Graduate College and be completed according to published deadlines.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The student must satisfy the minimum admission requirements of the UNLV Graduate College and the William F. Harrah College of Hospitality, including:

1. Submission of a completed online application form and required admission fee.

2. Submission of two copies of official transcripts from all institutions attended after high school. One copy should be sent directly from the institution attended to the UNLV Graduate College and another one to the William F. Harrah College of Hospitality Graduate Studies Office. Please note: it is a requirement of the UNLV Graduate College that students with class credits and/or degrees from educational institutions outside the United States must provide a course-by-course evaluation of those credentials by a Graduate College approved NACES Evaluation Agency. This is to obtain an evaluation of the courses, verification of degrees, and establish accreditation of the schools and/or universities. A copy of this evaluation should be sent to both the UNLV Graduate College and the William F. Harrah College of Hospitality Graduate Studies Office. Unofficial copies of transcripts may be uploaded with the online application form.

3. A baccalaureate degree from an accredited institution with a minimum overall GPA of 2.75 on a 4.00 scale, or 3.00 in the last two years of study.

4. A satisfactory composite score on the Graduate Record Examination (GRE) (UNLV institution code 4861, William F. Harrah College of Hospitality College code 7549), with a minimum score of 155 on the quantitative portion and 148 on the verbal portion of the exam. Or, the Graduate Management Admissions Test (GMAT) (UNLV institution code 71T, William F. Harrah College of Hospitality College code 71T-TD-68), minimum score 550 with at least 25% on the verbal portion. All scores must be sent directly from the testing center to the William F. Harrah College of Hospitality Graduate Studies Office.

5. A minimum of one year of full-time work experience in a management/supervisory capacity in the hospitality industry, or three years of full-time, front-line experience.

6. A brief essay of approximately 500 words outlining the applicant’s career goals and how the applicant’s hospitality employment background has prepared the applicant for graduate study.

7. Two letters of recommendation, one from a current or former employer and one from a college faculty member able to evaluate the applicant’s potential for success in a graduate program. If the applicant is no longer in touch with faculty members, letters from two employers will suffice.

8. A current resume with employer references. The resume should clearly indicate job titles, places and dates of employment, and specific job responsibilities.

9. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Items 6, 7, and 8 above can be submitted to the William F. Harrah College of Hospitality Graduate Studies Office by email or mail. Recommendation letters must be mailed or emailed directly from the employer or professor, not forwarded by the applicant.

Application Deadline: Refer to the Graduate College website for specific deadlines.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track

Total Credits Required: 36

Course Requirements

Required Courses – Credits: 15

• HOA 705 - Financial Analysis for the Service Industries
• HOA 711 - Laws of Innkeeping and Food Service
• HOA 731 - Operational Analysis in Hospitality Management
• HOA 735 - Research Methodology
• HOA 740 - Marketing Systems
**Supporting Elective Course – Credits: 15**

Complete fifteen credits of advisor-approved elective coursework.

**Thesis – Credits: 6**

- HOA 789R - Thesis

**Degree Requirements**

1. Successfully complete a minimum of 36 graduate-level credit hours, of which no less than 24 are in Hotel Administration. This allows for a variety of supplemental tracks including business and education. At least 27 credits must be at the 700-level.

2. An oral examination is required of all candidates for the M.S. degree.

3. Successfully complete supplemental courses as required by the academic advisor, if the student’s undergraduate preparation is insufficient. Generally, no more than six credits of supplementary courses will be required.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. In addition to the academic requirements, the William F. Harrah College of Hospitality requires 500 hours of acceptable employment experience in the hospitality industry. The work experience requirement requires the student to find employment, but carries no academic credit and may be earned outside Nevada and during the summer. This work experience will be evaluated qualitatively as well as quantitatively, and may be waived at the discretion of the program coordinator. International students must go to the Office of International Students and Scholars to verify employment eligibility.

**Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

**Subplan 2 Requirements: Professional Paper Track**

**Total Credits Required:** 36

**Course Requirements**

**Required Courses – Credits: 15**

- HOA 705 - Financial Analysis for the Service Industries
- HOA 711 - Laws of Innkeeping and Food Service
- HOA 731 - Operational Analysis in Hospitality Management
- HOA 735 - Research Methodology
- HOA 740 - Marketing Systems

**Supporting Elective Courses – Credits: 18**

Complete eighteen credits of advisor-approved elective coursework.

**Professional Paper – Credits: 3**

- HOA 788R - Professional Paper

**Degree Requirements**

1. Successfully complete a minimum of 36 graduate-level credit hours, of which no less than 24 are in Hotel Administration. This allows for a variety of supplemental tracks including business and education. At least 27 credits must be at the 700-level.

2. An oral examination is required of all candidates for the M.S. degree.

3. Successfully complete supplemental courses as required by the academic advisor, if the student’s undergraduate preparation is insufficient. Generally, no more than six credits of supplementary courses will be required.

4. In addition to general academic requirements, the William F. Harrah College of Hospitality requires 500 hours of acceptable employment in the hospitality industry. This work experience will be evaluated qualitatively as well as quantitatively. The work experience requirement requires the student to find a paid job but may be earned anywhere.

**Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete a professional paper.

**Plan Graduation Requirements**

Refer to your subplan for Graduation Requirements.
The William S. Boyd School of Law, which commenced classes in August 1998, is the first state-supported law school in Nevada history and the only law school in the state. The school offers three juris doctor degree programs: a full-time day program, a part-time evening program, and a part-time day program, and three dual degree programs: a J.D./M.B.A., J.D./M.S.W. and J.D./Ph.D. in Education. These programs are designed to train ethical and effective lawyers and leaders for Nevada and for the legal profession. The curriculum emphasizes professionalism, community service, and dispute avoidance/dispute resolution through a combination of skills training and traditional pedagogy and exposure to different public policy players and sources of law.

The mission of the William S. Boyd School of Law is to prepare students for the competent and ethical practice of law. At the same time, the Boyd School of Law recognizes that the skills and knowledge acquired in the juris doctor program may be transferred easily to other fields of endeavor and that many students seek legal training for the value it may have in pursuits other than the practice of law. The Boyd School of Law is dedicated to preserving, transmitting, and advancing the current state of legal knowledge, to developing programs that meet the changing needs of society, and to encouraging its graduates to apply the knowledge they gain for their own personal development and for the good of society. The curriculum responds to the needs of the students as well as the needs of the profession. In the early stages of legal education, the curriculum stresses professionalism, community service, and the roles and importance of lawyers in our society, all in an effort to acquaint students with the nature and nobility of the legal profession and with the opportunity that lawyers have to improve the society in which they live. Throughout the curriculum, emphasis is placed on writing, professionalism, and community service. In its clinical and externship programs, the law school provides students with the opportunity of a substantial lawyering experience under close supervision.

Daniel W. Hamilton, J.D., Ph.D., Dean
Jeanne F. Price, J.D., Associate Dean for Academic Affairs

Law Faculty

Dean and Richard J. Morgan Professor of Law

Hamilton, Daniel W. B.A. Oberlin College; J.D., George Washington University Law School; Ph.D., Harvard University. Rebel since 2013.

Associate Deans

Berger, Linda Associate Dean for Faculty Development and Research; Family Foundation Professor of Law; B.S., University of Colorado-Boulder; J.D., Case Western Reserve University School of Law. Rebel since 2011.

Nathanson, Rebecca Interim Associate Dean for Experiential Education; James E. Rogers Professor of Education and Law; Associate Professor; Joint Appointment with Department of Educational Psychology; B.A., University of California, Los Angeles; M.A., University of California, Santa Barbara; Ph.D., University of California, Santa Barbara. Rebel since 2003.

Price, Jeanne Associate Dean for Academic Affairs; Professor of Law; Director of the Wiener-Rogers Law Library; B.A., Yale University; J.D., University of Texas School of Law; M.L.S., University of Maryland. Rebel since 2008.

Smith, Christine Associate Dean for Public Service, Compliance and Administration; B.S., Arizona State University; M.Ed., Northern Arizona University. Rebel since 1998.

Associate Dean and Graduate Coordinator

Durand, Frank D. Associate Dean for Student Affairs; B.A., University of New Mexico; J.D., Stanford Law School. Rebel since 1998.

Assistant Dean

Martin, Layke Assistant Dean for External Relations, B.A., University of Nevada, Las Vegas; J.D., Boston University School of Law. Rebel since 2011.

Faculty

Anderson, Rachel J. Professor of Law; B.A., Zwischenpruefung, Humboldt-Universitaet zu Berlin; M.A., Stanford University; J.D., University of California, Berkeley School of Law. Rebel since 2007.

Barthum, Ian C. Professor of Law; B.A., Hamilton College; J.D., Vermont Law School; LL.M., Yale Law School. Rebel since 2011.

Bayer, Peter Brandon Associate Professor of Law; B.A., Hamilton College; M.A., New York University; J.D., New York University School of Law; LL.M., Harvard Law School. Rebel since 2001.

Berger, Linda Associate Dean for Faculty Development and Research; Family Foundation Professor of Law; B.S., University of Colorado-Boulder; J.D., Case Western Reserve University School of Law. Rebel since 2011.

Berkheiser, Mary E. Joyce Mack Professor of Law; B.A., University of Arizona; J.D., University of Arizona College of Law. Rebel since 1998.

Birdsong, Bret C. Professor of Law; B.A., Princeton University; J.D., University of California, Hastings College of the Law. Rebel since 2000.

Blakesley, Christopher L. The Cobeaga Law Firm Professor of Law; B.A., University of Utah; M.A., The Fletcher School of Law and Diplomacy, Tufts University; J.D., University of Utah College of Law; LL.M., J.S.D., Columbia University School of Law. Rebel since 2002.

Carr, Jennifer Director, Academic Success Program; B.A., University of Nevada, Reno; J.D., University of Nevada, Las Vegas School of Law. Rebel since 2009.

Correales, Robert I. Professor of Law; B.A., University of North Texas; J.D., University of Kansas School of Law; LL.M., Georgetown University Law Center. Rebel since 1998.

Edwards, Linda E. L. Cord Foundation Professor of Law; B.A., Florida State University; J.D., University of Tennessee College of Law. Rebel since 2009.

Franklin, Eric H. Associate Professor of Law; B.A., The University of Texas, J.D., Cornell Law School. Rebel since 2013.

Garcia, Ruben J. Professor of Law; A.B., Stanford University; J.D., University of California, Los Angeles School of Law; LL.M., University of Wisconsin Law School. Rebel since 2011.

Gordon, Sara G. Associate Professor of Law; B.A., Pitzer College; J.D., University of Arizona College of Law. Rebel since 2007.

Griffin, Leslie C. William S. Boyd Professor of Law; B.A., University of Notre Dame; M.A., M.Phil., Ph.D., Yale University; J.D., Stanford Law School. Rebel since 2012.

Hamilton, Daniel W. Dean, Richard J. Morgan Professor of Law; B.A. Oberlin College; J.D., George Washington University Law School; Ph.D., Harvard University. Rebel since 2013.

Johnson, Lori D. Associate Professor of Law; B.A., University of Notre Dame; J.D., Northwestern University School of Law. Rebel since 2010.
Kagan, Michael Professor of Law; B.A., Northwestern University; J.D., University of Michigan Law School. Rebel since 2011.

Kindred, Kay P. Ralph Denton Professor of Law; A.B., Duke University; J.D., Columbia University School of Law. Rebel since 1999.

LaFrance, Mary IGT Professor of Intellectual Property Law; A.B., Bryn Mawr College; M.A., J.D., Duke University School of Law. Rebel since 1999.

Lazos, Sylvia Justice Myron Leavitt Professor of Law; B.A., St. Mary’s University; M.A., St. Mary’s University; J.D., University of Michigan Law School. Rebel since 2003.

Lipman, Francine J. William S. Boyd Professor of Law; B.A., University of California, Santa Barbara; M.B.A., San Diego State University; J.D., University of California, Davis School of Law; L.L.M., New York University School of Law. Rebel since 2012.

MacDowell, Elizabeth L. Associate Professor of Law; B.A., California State University, Hayward; J.D., University of California, Berkeley School of Law. Rebel since 2010.

Main, Thomas O. William S. Boyd Professor of Law; B.A., Grinnell College; J.D., Northeastern University School of Law. Rebel since 2012.

McAffee, Thomas B. William S. Boyd Professor of Law; B.S., University of Utah College of Law; J.D., University of Utah College of Law. Rebel since 1998.

McGinley, Ann C. William S. Boyd Professor of Law; B.A., Rosemont College; M.A., University of Delaware; J.D., University of Pennsylvania Law School. Rebel since 1999.

Nathanson, Rebecca Interim Associate Dean for Experiential Education; James E. Rogers Professor of Education and Law; Associate Professor, Joint Appointment with Department of Educational Psychology; B.A., University of California, Los Angeles; M.A., University of California, Santa Barbara; Ph.D., University of California, Santa Barbara. Rebel since 2003.

Nussbaum, Lydia Associate Professor of Law; B.A., Cornell University, J.D., University of Maryland School of Law. Rebel since 2013.

Pindell, Ngai UNLV Vice Provost for Faculty Affairs; International Gaming Institute Professor of Law; Director of Gaming Programs; A.B., Duke University; J.D., Harvard Law School. Rebel since 2000.

Pollman, Terrill Professor of Law; B.A., University of Arizona; J.D., University of Arizona College of Law. Rebel since 1998.

Price, Jeannе Associate Dean for Academic Affairs; Professor of Law; Director of the Wiener-Rogers Law Library; B.A., Yale University; J.D., University of Texas School of Law; M.L.S., University of Maryland. Rebel since 2008.

Rapoport, Nancy B. Special Counsel to the President, UNLV; Garman Turner Gordon Professor of Law; Affiliate Professor of Law & Ethics, Lee Business School; B.A., Rice University; J.D., Stanford Law School. Rebel since 2007.

Roiniсk, Addie C. Associate Professor of Law; B.A., Oberlin College; J.D., M.A., University of California, Los Angeles School of Law. Rebel since 2011.

Rowley, Keith A. William S. Boyd Professor of Law; B.A., Baylor University; M.P.P., Harvard University; J.D., University of Texas School of Law. Rebel since 2001.

Scharf, Rebecca Associate Professor of Law; B.A., Brandeis University; J.D. Harvard Law School. Rebel since 2004.

Shoben, Elaine Judge Jack and Lulu Lehman Professor of Law; A.B., Barnard College; J.D., University of California, Hastings College of the Law. Rebel since 2005.

Stempel, Jeffrey W. Doris S. and Theodore B. Lee Professor of Law; B.A., University of Minnesota; J.D., Yale Law School. Rebel since 1999.

Sternlight, Jean R. Michael and Sonya Saltman Professor of Law; Director, Saltman Center for Conflict Resolution; B.A., Swarthmore College; J.D., Harvard Law School. Rebel since 2003.

Tannenhaus, David James E. Rogers Professor of History and Law; Joint Appointment with Department of History; B.A., Grinnell College; M.A. and Ph.D., University of Chicago Law School. Rebel since 2002.

Tovino, Stacey Lehman Professor of Law; Director, UNLV Health Law Program; B.A., Tulane University; J.D., University of Houston Law Center; Ph.D., University of Texas Medical Branch. Rebel since 2010.

Traum, Anne R. Professor of Law; A.B., Brown University; J.D., University of California, Hastings College of the Law. Rebel since 2009.

Trimble, Marketa Samuel S. Lionel Professor of Intellectual Property Law; Mgr., JUDr., and Ph.D., Law School of Charles University (Prague); J.S.M., and J.S.D, Stanford Law School. Rebel since 2010.

White, John Valery Professor of Law; B.A. Southern University; J.D., Yale Law School. Rebel since 2007.

Library Faculty

Gross, Jennifer Associate Professor; B.A., University of Pennsylvania; J.D., Pace University School of Law; M.L.S., University of Washington. Rebel since 1998.

Martineau, Andrew Assistant Professor; B.A., University of Idaho; J.D., DePaul University College of Law; M.L.I.S., University of Washington. Rebel since 2013.

McClure, David Associate Professor; B.A., University of Nebraska at Kearney; M.S.I.S., University of Texas School of Information; J.D., University of Nebraska College of Law. Rebel since 2009.

Saxon, Sean Associate Professor; B.A., Michigan State University; M.L.I.S. from Wayne State University. Rebel since 1998.

Professors Emeriti

Grant, Douglas L. Professor of Law Emeritus; B.A., University of Iowa; J.D., University of Colorado School of Law. UNLV Emeritus 2010.

Henderson, Lynne Professor of Law Emerita; B.A., Stanford University; J.D., Stanford Law School. UNLV Emerita 2010.

Morgan, Richard J. Dean and Professor of Law Emeritus; B.A., University of California, Berkeley; J.D., University of California, Los Angeles, School of Law. UNLV Emeritus 2007.

Dual Degree: Doctor of Philosophy - Educational Psychology & Juris Doctor

Juris Doctor Program Information (This program is accredited by: ABA. More information can be found at: unlv.edu/provost/vpaa/accreditation)

LAW 502 - Contracts I Credits 3
Overview of basic contract law. Exploration of common law legal method and the structure of Article 2 of the Uniform Commercial Code in the context of issues of contract formation. Prerequisites: Majors only, consent of instructor.

LAW 503 - Contracts Credits 4
Overview of basic contract law. Exploration of common law legal method and the structure of Article II of the Uniform Commercial Code in the context of issues of contract formation and interpretation. May be repeated to a maximum of four credits. Prerequisites: Majors only, consent of instructor.

LAW 505 - Lawyering Process I Credits 1 – 4
Students are introduced to basic legal research, interviewing skills, effective use of legal authorities in legal analysis and the conventions of predictive legal writing. The course is taught using readings, exercises, simulations, extensive individual feedback and conferences. Students will write several short assignments as well as longer office memos. Prerequisites: Majors only, consent of instructor.

LAW 511 - Civil Procedure/Alternative Dispute Resolution I Credits 4
Exploration of the nature and structure of dispute resolution systems, with a focus on formal adjudicatory procedure for civil lawsuits while exposing students to the spectrum and interrelation of dispute resolution systems. Topics covered include jurisdiction, venue, rules of procedure, choice of law. Notes: May be repeated to a maximum of four credits. Prerequisites: Majors only, consent of instructor.

LAW 515 - Lawyering Process II Credits 1 – 4
Students continue to develop skills in legal research, analysis, reasoning and writing. Focuses on writing persuasively as an advocate, using increasingly complex simulations requiring analysis of statutory and administrative law materials. Assignments include letters to clients and attorneys, a trial court memorandum and an appellate brief, staged to allow for extensive individual feedback and instruction, and an oral argument to a mock appellate court. Prerequisites: LAW 505, majors only; consent of instructor.

LAW 517 - Constitutional Law I Credits 3
Examines judicial review, congressional power under the Commerce, Taxing, and Spending Clauses and section five of the Fourteenth Amendment; substantive due process rights; the role of the states and national government under the Tenth and Eleventh Amendments; and Separation of Powers. Prerequisites: Majors only, consent of instructor.

LAW 519 - Contracts II Credits 3
Further exploration of Contracts I with an emphasis on interpretation of contracts. Prerequisites: Majors only, consent of instructor.

LAW 521 - Property I Credits 4
Acquisitions of property interest, estates in land and future interests, and landlord tenant. Notes: May be repeated to a maximum of four credits. Prerequisites: Majors only, consent of instructor.

LAW 523 - Torts Credits 4
Law of civil injuries, including legal protection of personality, property and relational interests against physical, economic, and emotional harms. Emphasis on intentional torts, negligence and strict liability. Prerequisites: Majors only, consent of instructor.

LAW 525 - Property II Credits 2 – 3
Real estate transactions, easements and other servitudes, public land use regulation. Notes: May be taken to a maximum of three credits. Prerequisites: Majors only, consent of instructor.

LAW 531 - Civil Procedure and Alternative Dispute Resolution II Credits 2 – 3
Continuation of Civil Procedure and Alternative Dispute Resolution I. Topics covered include pretrial practice, pretrial dispositions, and court-imposed alternative dispute resolution mechanisms.

LAW 602 - American Legal History Credits 2 – 3
Examination of major issues in American legal history such as the role of lawyers in society and the role of law in developing the economy as well as the development of American legal institutions. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 603 - Federal Income Tax Credits 3
Overview of the code provisions governing the taxation of individual income and the basic concepts and legal doctrines which courts employ in implementing those provisions. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 604 - Administrative Law Credits 3
Examines the legal structure of federal and state government agencies; how they may be structured under the Constitution; how they issue and enforce regulations; and how they make decisions. Notes: Majors only or completion of first-year law courses or consent of instructor.

LAW 605 - Basic Bankruptcy Credits 3
Reviews the basic elements of business and consumer bankruptcy under federal bankruptcy statutes. Emphasis on problem solving and ethical issues. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 606 - Evidence Credits 3 – 5
Focuses on the Federal Rules of Evidence and the issues that arise out of their use. Provides understanding of the rules including both their theoretical basis and how they function in the courtroom. Addresses preparation and presentation of various kinds of evidence, including proof of writings; qualifications and examination of witnesses; privilege; opinion testimony; demonstrative, experimental, scientific evidence, determination of relevancy; application of the hearsay rule. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 607 - Family Law Credits 3
Basic family law. Covers legal construction of the family and relationship between the state and the family, marriage, divorce, custody, and adoption. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 608 - Insurance Law Credits 3
Overview of the theory and operation of insurance, including the marketing, underwriting, and claims process. Major forms of insurance surveyed with primary focus on issues of insurance policy construction and judicial resolution of recurring coverage issues. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 609 - Law and Literature Credits 1 – 3
Study of real or functional depictions of lawyers and the legal system from a literary perspective to gain a new understanding of the law. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 610 - Advanced Legal Analysis and Writing: Special Topics Credits 3
Analysis and writing about complex legal problems. Interpretation of various authorities and use of various forms of legal reasoning, types of argument, and techniques for clear and effective writing. Prerequisites: LAW 505, LAW 515, majors only, consent of instructor.

LAW 611 - Products Liability Credits 2 – 3
Analyzes the substantive law, underlying theory and policy, and practice of products liability—liability for injuries by defective consumer products. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.
LAW 613 - Professional Responsibility  Credits 3
Examines the law governing lawyers, the rules that govern how members of the legal profession, including judges as well as lawyers, may or must behave. Sources of these rules are many—the Constitution, statutes, procedural, evidentiary and court rules, and rules of professional conduct. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 614 - Real Estate Finance  Credits 3
Mortgages, deeds of trust, installment land contracts, construction financing, mechanics’ liens, sales and leasebacks. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 615 - Secured Transactions  Credits 3
Covers Article 9 of the Uniform Commercial code with respect to taking security interests in personal property. Emphasis on interplay with real property security and bankruptcy, problem solving and ethical issues. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 616 - Criminal Law  Credits 3
Introduction to criminal law with emphasis on principles of criminal liability. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 617 - Disability Law  Credits 3
Examines the law of disability discrimination, focusing on the Americans with Disabilities Act of 1990 and other federal and state statutes, case law and regulations governing the civil rights of persons with disabilities to education, employment, public accommodations and housing. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 618 - Employment Discrimination Law  Credits 3
Examines the law of employment discrimination, focusing on Title VII of the Civil Rights Act of 1964, the Civil Rights Act of 1991, the Age Discrimination Employment Act of 1967 and other federal and state statutes, case law and regulations protecting the civil rights of employees and job applicants. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 619 - Employment Law  Credits 3
Surveys the law of employment relations focusing on common law exceptions to the employment at will doctrine through public policy, individual contracts, handbooks, and tort doctrine. Examines just cause provisions of the Model Termination Act. Analyzes common law and statutory protections afforded to employee speech and employee privacy, and examines federal wages and hours legislation. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 620 - Water Law  Credits 3
Acquisition and exercise of private rights in water, public rights and environmental protection, water distribution organizations, interstate water allocation, and federal-state relations in water resource management. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 621 - Patents, Trademarks and Trade Secrets  Credits 3
Study of the law relating to the protection of literary, artistic, and musical material; copyright law, including publication, subjects protected, and extent of protection; aspects of unfair competition, and right of privacy. Notes: May be repeated to a maximum of four credits. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 622 - Introduction to Gaming Law  Credits 2 – 3
This course provides an overview of public policy issues; the federal role in gaming regulation; the economics of gaming; the creation of gaming control systems; the licensing process; ethical requirements for the gaming lawyer; accounting, internal controls and taxation; gaming contracts; gaming crimes; advertising; entertainment; the legislative process; problem gambling; and practical approaches to legal representation. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 623 - Corporate Law  Credits 3
Examines law governing corporations, including the structure, formation, management and dissolution of corporations, capital and asset distributions, board of directors, officers, stock, directors, stockholders, preferred and common stock, financial reporting, corporate acquisitions and mergers, and related topics. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 624 - Constitutional Law II  Credits 3
Examines the Equal Protection Clause of the Fourteenth Amendment and related topics and the First Amendment’s Free Speech and Free Press Clauses. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 625 - Federal Indian Law  Credits 3
Anthropological, historical, and legal study of the American Indians, including a focus on American Indian traditional law and values, federal policy and current legal issues. Notes: May be repeated to a maximum of four credits. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 626 - Business Organizations I  Credits 3 – 4
Examines different forms of business organization, including corporations, partnerships and limited liability companies. Focuses on similarities and differences among these forms, and examines the roles, responsibilities and rights of the persons involved in business organizations. Does not cover federal regulation of securities or issuers. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 627 - Pretrial Litigation  Credits 3
Hands-on experience of the pre-trial litigation process in the federal court system. Students act as lawyers in a simulated civil case, interviewing and counseling clients, conducting legal research, drafting pleadings, engaging in discovery practice, settlement negotiations and pre-trial motion practice. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 628 - Payment Systems  Credits 3
Examine the legal rules regarding how goods and services are paid for. Includes portions of Articles 3 and 4 of the Uniform Commercial Code, federal statutes regarding credit and debit cards, and the rules regarding negotiable instruments.

LAW 629 - Copyright  Credits 3
Covers federal copyright law and the state law right of publicity, with minor attention to some closely related doctrines. Fundamental principles and public policy questions of federal copyright law. Although some state law doctrines examined from time to time, copyright laws in the United states is almost exclusively federal. For students whose career interests include intellectual property or entertainment law. Also recommended for those interested in communications law, general business transactions, and/or commercial litigation. Notes: May be repeated to a maximum of four credits.

LAW 630 - Community Property  Credits 1 – 3
Examines the law dealing with the classification, management and distribution of property acquisition within the community property jurisdictions of the United States. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 631 - Remedies  Credits 2 – 4
Explores what lawyers and courts do to help someone who has been, or is about to be, wronged. In-depth look at the four major categories of remedies: damages, coercive remedies, declaratory relief and restitution. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 632 - Wills, Trusts and Estates  Credits 2 – 3
Examines intestate succession, family protection, execution of wills, will contests, will substitutes, creation of trusts, modification and termination of trusts, administration of estates and trusts. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 633 - Land Use Regulation  Credits 2 – 3
Focuses on public regulation of land use, including zoning, subdivision regulation, regulation of urban growth, etc. Include the planning process, constitutional limitations on land use controls, state and regional regulation, aesthetic regulation and discriminatory zoning, and private land use alternatives. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.
LAW 634 - Federal Courts  
Credits 2 – 3  
Examines federal jurisdiction and the law of federal-state relations. Covers federal judicial powers, congressional allocation of jurisdiction, choice of law, district court jurisdiction, appellate review, civil judicial reform, 42 USC Section 1983, Implied Right of Action, 11th Amendment and Federal Habeas Corpus. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 635 - Conflict of Laws  
Credits 2 – 3  
Focuses on the problem of choosing which jurisdiction’s law should be applied to transactions, relationships, or events with contracts in more than one jurisdiction. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 636 - Child, Parent and the State  
Credits 2 – 3  
Explores the legal relationships between children, their parents, and the state, covering such issues as the child as an autonomous being, the child’s role in the family, family autonomy, and the obligations of parents and the state to children. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 637 - Sales and Leases  
Credits 2 – 3  
Examines the laws governing sales and leases of goods, including Articles 1, 2 and 2A of the Uniform Commercial Code, the U.N. Convention on Contracts for the International Sale of Goods, and the Uniform Electronic Transactions Act. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 638 - Education Law and Policy  
Credits 2 – 3  
Examines six distinct and highly visible areas of education law and policy, primarily in K-12: compulsory education; school governance and due process; school finance; private schools; religion and public schools; and, equal educational opportunity.

LAW 639 - Feminist Jurisprudence  
Credits 2 – 3  
Explores feminist theory in relation to the law. Examines the historical foundations of women’s legal subordination as well as the various strands of feminist legal theory. Specific units of study may include topics such as affirmative action, comparable worth, work and family, education, sexual harassment, domestic violence, the teaching and practice of law, pornography and free speech, abortion and others. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 640 - Labor Law  
Credits 2 – 3  
Explores the employer-employee-union relationship, its historical and economic development and its modern statutory framework.

LAW 641 - Entertainment Law  
Credits 2 – 3  
Surveys a wide range of legal issues pertinent to live and recorded entertainment, including intellectual property rights, contract formation and breach, regulatory schemes, labor issues, and First Amendment considerations. Prerequisites: LAW 629

LAW 642 - Law and Social Justice  
Credits 2 – 3  
Examines the role of law in creating, perpetuating, and dismantling hierarchies of power and privilege in society, particularly those based on social/ethnic groupings, gender, socio-economic class, sexual orientation, and disabilities. Enables students to read law critically with an understanding of the ways in which techniques, practices and rhetorical strategies can exclude and subordinate based on categories of identity.

LAW 643 - Legislation and Statutory Interpretation  
Credits 2 – 3  
Explores some of the various procedural, constitutional, and jurisprudential issues raised by a study of the unique role that state and federal legislatures play in constitutional order. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 644 - Juvenile Law  
Credits 2 – 3  
Examines the procedural and substantive law and judicial administration relating to juvenile justice. Primary area of concentration: rights of accused juvenile, police conduct and detention, reference for adult prosecution, adjudication, treatment vs. punishment, and the roles of the lawyer in the juvenile court system. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 645 - Lawyering Theory and Practice  
Credits 2 – 4  
Students study and perform a range of tasks and services performed by practicing attorneys in the representation of clients. Exercises include counseling, assessment of legal problems, efforts for resolution and claims activity, including litigation and defense through complaints, motions, discovery, and trial-related activity.

LAW 646 - Cyberlaw  
Credits 2 – 4  
Study of legal issues attending use of computers and electronic communications and commerce, including intellectual property concerns related to cyberspace and features such as websites, e-commerce and communications. Notes: LAW 629 is strongly recommended.

LAW 647 - Civil Rights Litigation  
Credits 2 – 4  
Students examine and evaluate the various stages of a complex case involving a civil rights claim made pursuant to the Constitution, federal anti-discrimination statutes, or common law. Prerequisites: LAW 515; majors only, consent of instructor.

LAW 648 - Health Care Liability and Quality Regulation  
Credits 3  
Explores ways in which the law promotes the quality of health care through licensing, certification, and accreditation of health care professionals and institutions and also addresses liability issues in the health care context. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 649 - Taxation of Business Entities  
Credits 2 – 3  
Surveys federal income taxation of business entities and their owners, including corporations, partnerships, LLC’s, and LLP’s. Prerequisites: LAW 603, majors only or completion of first-year law courses or consent of instructor.

LAW 650 - Estate and Gift Tax  
Credits 1 – 3  
Examines the federal taxation regime applicable to gifts and inheritances. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 651 - Environmental Quality Law  
Credits 2 – 3  
Provides an overview of the law and policy of environmental quality and pollution control. Addresses the origins and development of modern statutory environmental law as it relates to the various media: air, water and soil. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 652 - International Public Law  
Credits 2 – 3  
Introduction to the doctrines, institutions and methodology of modern international law. Students examine the legal systems governing relations among states, and their expansion to non-state actors. Also analyzes the application of international law in domestic courts, international tribunals and organizations, doctrines of jurisdiction and immunities and human rights. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 653 - Criminal Procedure I  
Credits 3  
Basic course in criminal procedure. Covers laws regulating daily interactions of police and public, including laws of search and seizure and of interrogations. Does not cover rights subsequent to interrogation. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 654 - Public Lands and Natural Resources  
Credits 2 – 3  
Provides an introduction to federal public lands and natural resources law. Focuses on the laws and legal systems that govern the classification and use of the federally owned lands comprising a third of America and the vast majority of the West. Examines major resource areas, including: minerals, timber, range, wildlife, recreation, wilderness, and cultural resources. Explores the interplay between environmental, economic, cultural, social and political factors in managing national parks, forest, and the public domain. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 655</td>
<td>Securitization</td>
<td>2 – 3</td>
<td>Examines the financing technique of securitization and its various legal underpinnings. Securitization is a trillion dollar industry that raises issues in corporate finance, secured transactions, bankruptcy and securities regulation. Prerequisites: Majors only or completion of first-year law courses or consent of instructor, and LAW 615 or LAW 626.</td>
</tr>
<tr>
<td>LAW 656</td>
<td>Business Organizations II</td>
<td>2 – 3</td>
<td>Covers the law of publicly-traded corporations. Special attention will be given to the fiduciary duties of boards of directors; management, and controlling shareholders; proxy regulation and shareholders voting; insider trading; shareholder litigation and mergers and acquisitions. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 657</td>
<td>Antitrust</td>
<td>1 – 3</td>
<td>Basic legal framework for regulating conduct to undermine competitive markets. Topics include antitrust regulation of horizontal agreements between competitors to restrain trade, such as price-fixing, output restrictions, boycotts and mergers; vertical agreements between suppliers and purchasers such as distributional restraints, exclusive dealing and tying; and unilateral conduct, such as monopolization and attempted monopolization. Role of antitrust law in today's technological environment. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 658</td>
<td>Immigration Law</td>
<td>1 – 3</td>
<td>Covers legal issues and policies pertaining to non-citizens of the United States, including the regulation of admission, exclusion, and deportation of immigrants seeking to enter the United States. Rights of non-citizens who are in U.S. territory in the areas of health, education, and labor. Topics covered from various perspectives, including constitutional law, international human rights, comparative law, ethics and morality and history. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 660</td>
<td>Banking Law</td>
<td>3</td>
<td>Basic understanding of the federal and state laws governing traditional commercial banks and financial institutions in the United States. At the end of the course, the students will have a solid foundation which they can use to study more specific areas of law regarding such institutions. Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 661</td>
<td>Federal Taxation</td>
<td>1 – 5</td>
<td>Surveys the three major federal tax topics: income tax (two-fifths of course), taxation of business entities (two-fifths), and estate and gift tax (one-fifth). Students may enroll for all three components (5 credits), or two components, or one component (credits depending on components taken). Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 662</td>
<td>Civil and Criminal Tax Litigation</td>
<td>1 – 3</td>
<td>Examines tax controversy resolution mechanism. Not limited to tax students. Helpful for all interested in litigation career, including civil litigation and white collar crime. Also, good to hone drafting skills. Students prepare pleadings, memos, and other controversy-related documents. Notes: May be repeated to a maximum of three credits. Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 663</td>
<td>Advanced Issues in Tax</td>
<td>2 – 3</td>
<td>Seminar. In consultation with the professor, students select a topic of current interest and importance in federal, state, or international taxation. Notes: Students write research papers on topic and present and defend them in class. Prerequisites: Majors only or completion of first year law courses, or consent of instructor.</td>
</tr>
<tr>
<td>LAW 664</td>
<td>Criminal Procedure II</td>
<td>3</td>
<td>Covers law and practices between the time defendant is charged and final disposition and sentencing. Includes prosecutorial discretion, bail, plea bargaining right to counsel, due process, sentencing, and post-conviction review. Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 665</td>
<td>Health Care Organization and Finance</td>
<td>3</td>
<td>Laws and legal issues relating to the organization and operation of health care enterprises and the financing of health care services. Notes: Prior or concurrent enrollment in LAW 626 desirable but not required. Prerequisites: Majors only or completion of first year law courses or consent of professor.</td>
</tr>
<tr>
<td>LAW 666</td>
<td>Domestic Violence and the Law</td>
<td>3</td>
<td>Examines violence against women and others in intimate relationships and the ways in which the law impacts and is impacted by domestic violence. Explores the history and social context of domestic violence and the dynamics and dimensions of abusive relationships. Prerequisites: Majors only or completion of first year law courses or consent of professor.</td>
</tr>
<tr>
<td>LAW 667</td>
<td>International Criminal Law</td>
<td>3</td>
<td>Covers the basics of public international law in the context of international criminal law including the nature of international crime, aspects of the international substantive system of laws, and specific offenses, as well as how this law is adjudicated and enforced. Specific offenses covered will include both international and transnational crimes as well as the procedural and adjudicative mechanisms established to deal with these offenses. Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 668</td>
<td>Commercial Law: Core Concepts in Secured</td>
<td>4 – 5</td>
<td>Gives students a familiarity with, and the ability to manipulate, basic concepts in secured transactions (Article 9 of the Uniform Commercial Code) and certain aspects of payment systems (Articles 3, 4 and 5 of the Uniform Commercial Code). Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 669</td>
<td>Legal Drafting: Special Topics</td>
<td>3</td>
<td>Drafting legal documents such as contracts, leases, wills, by-laws, and employment agreements. Recognizing the importance of determining the client’s objectives, researching the relevant law, organizing the document effectively, and drafting with accuracy, clarity, brevity, and appropriate tone. Prerequisites: LAW 505, LAW 515; majors only; consent of instructor.</td>
</tr>
<tr>
<td>LAW 670</td>
<td>Alternative Dispute Resolution Survey</td>
<td>3</td>
<td>Students learn about negotiation, mediation, arbitration, and other forms of dispute resolution that are alternative or supplemental to litigation. The course will include theory, discussion, simulations, and lectures. Prerequisites: 500-level courses; majors only; consent of instructor.</td>
</tr>
<tr>
<td>LAW 671</td>
<td>Judicial Writing</td>
<td>3</td>
<td>Introduction to style and form of judicial writing. Researching and writing on problems typically handled by trial or appellate courts. Exploration of the roles of courts in America’s law and society, the internal workings of courts, and the roles and ethical obligations of various court staff. Prerequisites: LAW 505, LAW 515; majors only; consent of instructor.</td>
</tr>
<tr>
<td>LAW 672</td>
<td>International Business Transactions</td>
<td>3</td>
<td>Explores a wide range of legal problems involving international trade, licensing, and investment issues. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 673</td>
<td>Estate Planning</td>
<td>3</td>
<td>Cover various estate planning strategies, including but not limited to, the estate planning process, wills and living trusts, gifting considerations, life insurance, limited partnerships and limited liability companies and charitable giving. Prerequisites: LAW 632, LAW 650, majors only or permission of instructor.</td>
</tr>
</tbody>
</table>
LAW 674 - Perspectives on the Law--History and Jurisprudence  Credits 3
Explores American Legal History and the best thinking about the nature of law and how it functions. Prerequisites: Majors only or permission of instructor.

LAW 675 - State and Local Taxation  Credits 1 – 3
Explores the state and federal constitutional limits on state taxation and the principle kinds of state taxes: income, sales and property taxes. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 676 - Intellectual Property Licensing Practicum  Credits 3
Covers the fundamentals of intellectual property licensing agreements with emphasis on drafting techniques for licenses involving patents, copyrights, trademarks, databases, and/or trade secrets. Notes: This course satisfies the third semester Lawyering Process requirement. Prerequisites: LAW 505, and LAW 515, LAW 621 or LAW 629.

LAW 677 - Nevada Civil Practice  Credits 2-3
This course covers the basic areas of civil practice [actions, pleadings, civil procedure, evidence, and remedies], and will explore their particular applications [from selection, discovery tactics, litigation and trial strategy, professional ethics]. Prerequisites: Majors only or completion of first year law courses or consent of professor.

LAW 678 - U.S. Federal Gaming Law  Credits 3
This course will provide basic information about federal gambling law, including laws concerning Native American casinos, interstate wagering, international wagering, transportation of wagering devices and online wagering.

LAW 679 - Advanced Writers' Group  Credits 1
The Advanced Writers’ Group helps students become more effective legal writers by providing opportunities for them to respond to others’ writing and to receive feedback on their own writing. Notes: S/F grading only.

LAW 680 - International Intellectual Property  Credits 3
This course covers the principles, treaties and mechanisms that regulate intellectual property at the international level (particularly copyright, patents, trademarks and internet domain names) and surveys the differences in the intellectual property laws of various countries.

LAW 681 - Critical Race Theory  Credits 2-5
This course will explore the relationship between race and the law from the perspective of Critical Race Theory (CRT). It covers the origins of the literature and contrasts CRT with other frameworks. The course also covers major theoretical themes as well as questions and criticisms raised about CRT.

LAW 689 - Resort & Hotel Casino Law  Credits 3
The course will explore the legal issues that arise from the operation of a resort hotel and casino, using Nevada companies as typical examples. Although many of the topics discussed will be relevant to non-gaming resorts, this course emphasizes legal issues relating to the presence of gaming in resorts. The course is designed to provide an understanding of the array of legal issues associated with the operation of a resort hotel and the laws applicable to those issues. Legal issues will be identified and analyzed, and solutions will be discussed in the context of resort hotel and casino business operations.

LAW 710 - The Bill of Rights in Law and History  Credits 2 – 3
Read recent works on the Bill of Rights and consider contemporary and historical questions about the meaning and purpose of the Bill of Rights or one of its particular provisions. Topics include federalism, populism, the role of reason in conceptualizations of the Constitution and Bill of Rights, the problem of unenumerated rights and issues raised by the incorporation controversy. Prerequisites: Law 517

LAW 711 - Children in Society: Selected Problems  Credits 2 – 3
Examines issues related to laws and policy governing the place and treatment of children in American society. Specific issues vary somewhat based on current events and student interest, but generally focus on legal and policy issues affecting the meaning of the state’s parents' partial obligation, the parent-child relationship and the family.

LAW 712 - Trial Advocacy  Credits 2 – 4
Students design, execute, and practice the lawyering tasks specifically associated with actual courtroom trials, including opening statements, direct examination, cross-examination, evidentiary objectives, and closing arguments. Students perform these tasks in the context of hypothetical cases. Prerequisites: Prior or concurrent enrollment in LAW 606 and LAW 515.

LAW 713 - Interviewing, Counseling and Negotiations  Credits 2 – 4
Studies three principal forms of lawyering that take place outside the courtroom. Examines issues of client relations, decision-making and ethics in dealing with opponents as well as in guiding clients. Simulated exercises performed by students. Prerequisites: LAW 610

LAW 714 - Alternative Dispute Resolution Practicum  Credits 4
Engages in simulated situations involving various means of alternative dispute resolution in action, including simulated forms of mediation, arbitration, and various hybrids of ADR. Prerequisites: LAW 531

LAW 715 - Mediation  Credits 2 – 3
Examines the theory, practice, and public policy of mediation. Focusing particularly on issues of relevance to attorneys representing clients in mediation, the course will include simulations. Prerequisites: Majors only or completion of first year law courses or consent of instructor.

LAW 716 - Society of Advocates  Credits 1 – 3
Students participate in forensic competitions, such as moot court and trial practice, involving legal research and analysis and brief writing as well as oral arguments or other advanced lawyering tasks. Prerequisites: LAW 515, majors only; consent of instructor.

LAW 717 - Arbitration  Credits 2 – 4
Examination of the history and use of arbitration as well as its current legal status. Focus will be on substantive legal doctrines of arbitration particularly enforcement of arbitration agreements, and on arbitration procedure, particularly the manner in which arbitration may be conducted in various contexts. Prerequisites: LAW 610

LAW 718 - Advanced Advocacy: Special Topics  Credits 3
Analysis and writing about complex legal problems and writing documents that would be submitted to a court or quasi-judicial decision-maker. Prerequisites: LAW 505 and LAW 515; majors only; consent of instructor.

LAW 719 - Negotiation  Credits 2 – 3
Examines the theory, practice, and public policy of negotiation. Focusing particularly on issues of relevance to attorneys representing clients in negotiation, the course will include numerous simulations. Prerequisites: Majors only or completion of first year law courses or consent of instructor.

LAW 720 - Trial Evidence  Credits 2
This course is designed to move evidence from a group of rules grounded in theory to their application in adversarial proceedings. Prerequisites: LAW 606.

LAW 721 - Criminal Evidence  Credits 2
An in-depth exploration of the evidentiary issues that often come into play in criminal trials. Prerequisites: LAW 606 and LAW 616.

LAW 722 - International Commercial Arbitration  Credits 2
This course introduces students to the fundamentals of international commercial arbitration, including drafting an effective arbitration clause, selection of arbitrators, proceedings before arbitrators, enforcement, and challenge of awards.
LAW 723 - Economics and the Law Credits 3
Application of economic analysis to the topics confronted in litigation. Topics include: microeconomic theory, property rights, contracts, torts, discrimination, eminent domain, copyrights, patents, antitrust and criminal law. Prerequisites: ECO 302 or MBA 710, or consent of instructor.

LAW 724 - Law Practice Management Credits 1 – 3
Study how to maintain law practice for clients, including not only law office management but also issues of handling client funds, legal ethics, and economics of successful law practice. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 725 - Gaming Policy Seminar Credits 1 – 3
Studies gaming policy and sophisticated legal issues surrounding gaming law and regulation, primarily through case studies. Focuses on legislative and administrative action as well as litigation. Prerequisites: Majors only or completion of first-year law courses, LAW 505, LAW 515.

LAW 726 - Separation of Powers Law Credits 2 – 3
Explores the separation of powers in federal constitutional system. Topics covered include allocation of authority in the Constitution relating to the conduct of American foreign policy and the conduct of war-making activities. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 727 - International Human Rights Law Credits 2 – 3
Studies the norms, procedures, and the actors of international human rights. Explores the U.S. role in international human rights, the US policies that motivate its involvement, and the significance of tensions raised by such diversity.

LAW 728 - Separation of Powers Law Credits 1 – 3
Explores the separation of powers in federal constitutional system. Topics covered include allocation of authority in the Constitution relating to the conduct of American foreign policy and the conduct of war-making activities. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 729 - Advanced Legal Research Credits 1 – 3
Expands the research skills that have been introduced in Lawyering Process I as well as introduce new topics. Focuses on practitioner oriented materials and use. In addition, research in specific subject areas also explored. Prerequisites: Majors only, consent of instructor; LAW 505, LAW 515.

LAW 730 - Business Bankruptcy Credits 2 – 3
Studies financially distressed businesses with emphasis on business reorganizations under Chapter 11 of the Bankruptcy Code. Emphasizes lawyering skills and may include students representing parties in a simulated Chapter 11. Prerequisites: Majors only, or completion of first year courses or consent of professor; either LAW 605 or LAW 615.

LAW 731 - Seminar in Race, Gender, Sexual Orientation and the Law Credits 2 – 3
Students select the specific topics covered. Examines race, ethnicity, culture, gender, and sexual orientation and how legal norms address tensions raised by such diversity.

LAW 732 - Privacy and Drones Credits 3
This course examines the legal issues posed by unmanned aerial systems, better known as drones. Topics include the torts for invasion of privacy, Fourth Amendment limits on government surveillance, the First Amendment right to gather information, intellectual property, trespass, product liability, and national security. Prerequisites: Majors only or completion of first year courses or consent of instructor.

LAW 733 - Advanced Intellectual Property Seminar Credits 2 – 3
Course covers advanced topics in copyright, trademark and unfair competition law, trade secrets, and patent law. Prerequisites: LAW 621, LAW 629, majors only or completion of first-year law courses or consent of instructor.

LAW 734 - Income Taxation of Estates and Trusts Credits 1
Examines federal income taxation of estates, trusts, and income in respect of decedent. Considers effect on estate, planning and administration. Prerequisites: LAW 603, majors only, completion of first-year courses or consent of instructor.

LAW 735 - U.S. Taxation of International Transactions Credits 1 – 3
Examines how the federal income tax applies to outbound (U.S. persons doing business abroad) and in-bound (foreign persons doing business in U.S.) transactions. Also examines tax treaties. Prerequisites: LAW 603, majors only or completion of first-year law courses or consent of instructor.

LAW 736 - Securities Regulation Credits 1 – 3
A study of federal and state securities regulation, including statutes, administrative rules, decisions and interpretations, cases governing the duties of participants in securities offerings, and other securities transactions. Coverage will include registration, disclosure, and antifraud provisions and, time permitting, may include international and comparative topics. Notes: While not required, students without an undergraduate or graduate business degree or comparable work experience are encouraged to take Law 626, prior to taking this course. Prerequisites: Completion of first-year law courses or consent of instructor.

LAW 737 - Workers Compensation Credits 2-3
Students will gain an effective understanding of Worker’s Compensation law, as it is practiced in most jurisdictions, with emphasis on the rights of workers to compensation, the administration of claims and the evaluation of individual cases. Prerequisites: Majors only or completion of first year law courses or consent of professor.

LAW 738 - Death Penalty Seminar Credits 2-3
This course addresses the law of capital punishment and constitutional requirements. Emphasis is on Nevada’s death penalty statutes and Nevada Supreme Court Death penalty jurisprudence, policy issues implicated by capital punishment, and responsibilities of lawyers who handle capital cases. Notes: It is strongly recommended that students complete LAW 653 and LAW 664. Prerequisites: Majors only or completion of first year law courses or consent of professor.

LAW 739 - Community Law Credits 3-4
Students learn about the law through both classroom study and structured field experiences in which they apply what they learn by providing law-related services to community partners. Students will also develop their awareness of ethical issues, the social and cultural contexts of legal institutions, and the value of civic engagement. Prerequisites: Majors only, completion of first-year law courses or consent of instructor.

LAW 750 - Congressional Externship Credits 3 – 6
Explores the legislative process by placing students in legislative offices in Washington D.C. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.

LAW 751 - Judicial Externship Credits 3 – 7
Explores the role of the judiciary in the legal system by means of in-class discussions and field placements in judicial chambers in federal and state courts in the state of Nevada. Prerequisites: Majors only, consent of instructor.

LAW 752 - Legislative Externship Credits 1 – 12
Explores the state legislative process by placing students in the Legislative Counsel Bureau Office in Carson City and Las Vegas. Students are assigned to work with the Legislative Counsel Bureau, the House and Senate Judiciary Committees and interim committees. Prerequisites: Majors only or completion of first-year law courses or consent of instructor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW 760</td>
<td>Law Journal</td>
<td>1 – 3</td>
<td>Academic credit for successful completion of work by a member of the Nevada Law Journal. Grading S/F grading only. Prerequisites: Successful completion of writing competition and selection by the instructor.</td>
</tr>
<tr>
<td>LAW 761</td>
<td>Gaming Law Journal</td>
<td>1-3</td>
<td>Academic credit for successful completion of work by a member of the Gaming Law Journal. Notes: May be repeated to a maximum of 6 credits. Grading S/F grading only Prerequisites: Graduate standing</td>
</tr>
<tr>
<td>LAW 769</td>
<td>Education Clinic</td>
<td>3 – 6</td>
<td>Students will represent children and their adult educational decision makers in educational matters in administrative foray including informal and formal hearings within Nevada school systems and possibly in state and federal court. Students, teamed with professionals from other disciplines, will also work on educational policy and advocacy. Prerequisites: Completion of thirty credits; majors only; permission of instructor. Completion of thirty credits; majors only; permission of instructor.</td>
</tr>
<tr>
<td>LAW 770</td>
<td>Family Justice Clinic</td>
<td>1 - 6</td>
<td>This clinic explores the role of families in society, the strengths and weaknesses of state intervention into families, and the meaning of access to justice for children and parents. Students represent children, parents or guardians in family cases including termination of parental rights, guardianship, and other family matters. Cases involve contested trials, negotiations, administrative advocacy, and cutting edge legal and policy issues. Notes: In order to represent clients in court, students must be licensed under Nevada’s student practice rule. Course also has classroom component. Prerequisites: Completion of 30 law school credits.</td>
</tr>
<tr>
<td>LAW 771</td>
<td>Juvenile Justice Clinic</td>
<td>1 – 6</td>
<td>Under direct supervision of the professor, students represent juveniles in juvenile court and district court proceedings involving charges of criminal conduct. To represent these clients, students must be licensed under Nevada’s student practice rule for court appearances. Course also has classroom component. Prerequisites: LAW 616, LAW 613, majors only or completion of first-year courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 772</td>
<td>Special Topics: Mediation Clinic</td>
<td>1-6</td>
<td>Students will study theories of conflict, negotiation and mediation. They will be exposed to many different models of mediation and learn to choose the interventions and techniques appropriate for different settings. Students receive practical and theoretical training in mediation theory and apply what they learn by mediating live cases in their weekly 4-hour placement in a variety of community venues. Prerequisites: Completion of first-year law courses, interviewed by and permission of instructor.</td>
</tr>
<tr>
<td>LAW 773</td>
<td>Government &amp; Public Interest Externship</td>
<td>1 – 12</td>
<td>Designed to provide experiential learning opportunities in a variety of public law agencies including the offices of the U.S. Attorney, Special Public Defender, Clark County District Attorney, Federal Defender, and others. Notes: Supervised fieldwork is coupled with a weekly seminar. Corequisite/Prerequisite Pre or Corequisite: Professional responsibility.</td>
</tr>
<tr>
<td>LAW 774</td>
<td>Capital Defense Clinic</td>
<td>1 – 6</td>
<td>Under direct supervision of the professor, students work on legal teams representing capital defendants. The classroom component of the course will emphasize death penalty law, lawyering skills, and professionalism issues. Notes: Students must be able to be certified for student practice under the applicable court rules. Prerequisites: Second year standing.</td>
</tr>
<tr>
<td>LAW 775</td>
<td>Immigration Clinic</td>
<td>1 – 6</td>
<td>Under direct supervision of the professor, students represent clients in judicial and administrative proceedings involving immigration and related matters. The course will have a classroom component emphasizing immigration and naturalization law, lawyering and professionalism. Notes: Students must be eligible to represent clients under the applicable student practice rules.</td>
</tr>
<tr>
<td>LAW 776</td>
<td>Natural Resources Field Seminar</td>
<td>2</td>
<td>Course offers students an opportunity to explore advanced natural resources law issues both in the field and through traditional classroom discussion and research. Topics include rangeland management, wildlife management, endangered species protection, forest management, the Colorado ecosystem and fire management. Prerequisites: LAW 654 or LAW 620 or consent of instructor.</td>
</tr>
<tr>
<td>LAW 777</td>
<td>Community Law Practicum</td>
<td>1-2</td>
<td>A “companion course” that students take to add a practical application component to a doctrinal course. Students will work, individually or in teams, on a research, investigative or litigation project, undertaken in collaboration with community partners selected or approved by the professor teaching the doctrinal course. Prerequisites: Majors only, completion of first-year law courses or consent of instructor.</td>
</tr>
<tr>
<td>LAW 778</td>
<td>Innocence Clinic</td>
<td>1-6</td>
<td>This course will teach about the systemic causes of wrongful convictions and the legal remedies for actually innocent clients. Students enrolled in the course will work on Nevada claim of innocence cases referred from the Rocky Mountain Innocence Center and work on policy projects to improve the criminal justice system. Prerequisites: Completion of 30 law school credits.</td>
</tr>
<tr>
<td>LAW 779</td>
<td>Appellate Clinic</td>
<td>1-6</td>
<td>Students will represent clients on appeal in the Ninth Circuit Court of Appeals, the United States Supreme Court, or the Nevada Supreme Court. These appeals may include direct criminal appeals or civil appeals. Students will develop expertise in appellate counseling, strategy, legal research, storytelling, and oral and written advocacy. Prerequisites: Completion of 45 law school credits.</td>
</tr>
<tr>
<td>LAW 780</td>
<td>Directed Readings</td>
<td>1 – 3</td>
<td>Students earn credit for completing readings under the supervision and approval of a faculty member. Prerequisites: Majors only; consent of instructor required.</td>
</tr>
<tr>
<td>LAW 781</td>
<td>Directed Research</td>
<td>1 – 3</td>
<td>Students research and write about a legal topic of their choice under the guidance and supervision of a faculty member who has approved their choice of topic. Students further their knowledge of the area, as well as their legal research and writing skills. Prerequisites: Majors only, consent of instructor.</td>
</tr>
<tr>
<td>LAW 782</td>
<td>Directed Clinical Practice</td>
<td>0-3</td>
<td>This course enables students to do clinical legal work under the supervision of law school faculty, and to be certified to engage in limited practice as a student attorney under applicable rules. Prerequisites: Completion of 30 credits and faculty permission.</td>
</tr>
<tr>
<td>LAW 783</td>
<td>Advanced Clinic</td>
<td>1-3</td>
<td>Offers clinical opportunity for students who have completed an in-house clinic to pursue advanced projects or continue client representation in an ongoing matter. Students may earn 1 to 3 credits based on hours of legal work anticipated: 45 hours for one credit, 90 hours for two credits, 135 hours for three credits. Prerequisites: Completion of 30 credits and faculty permission.</td>
</tr>
<tr>
<td>LAW 790</td>
<td>Special Topics in Law</td>
<td>2 – 4</td>
<td>Involves the study of a specialized topic in law that is not covered elsewhere in the law school curriculum. The particular topic will be announced during registration for the semester in which the course if offered. Notes: May be repeated to a maximum of six credits. Prerequisites: Majors only or completion of first year law courses or consent of instructor.</td>
</tr>
</tbody>
</table>
College of Liberal Arts

The College of Liberal Arts offers doctoral programs in anthropology, English, history, political science, psychology and sociology. Eight master of arts degrees along with an MFA in creative writing are also available. Ranging across the college’s two subdivisions of the humanities and social sciences, these programs are ably staffed by nationally recognized scholars. These faculty members, who have earned advanced degrees from many of the nation’s most prestigious universities, actively pursue research and creative activities that advance their professions and often benefit the larger community. These endeavors are especially important since graduate education requires an understanding of the methodology for producing knowledge as well as the mastery of bodies of information. Small classes and individual attention further enhance the learning experience of each of these programs. In short, prospective graduate students in the College of Liberal Arts may confidently expect to participate in programs characterized by rigorous intellectual pursuit and careful, conscientious instruction.

Jennifer Keene, Ph.D., Dean
Denise Tillery, Ph.D., Associate Dean
John Tuman, Ph.D., Associate Dean

Plans

College Information

Graduate Certificate in Social Science Methods

Plan Description

The Social Science Methods Certificate Program provides students with an expanded breadth of methodological training for graduate students in relevant disciplines. This program encompasses the full range of empirical social science methods and is interdisciplinary by design. Students will gain a broad understanding of the role and forms of methodology in the social sciences. Students will gain expertise in the methods most relevant to their research question. This expertise will be demonstrated in the original research and colloquia presentations they produce.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

To be admitted to the program, students must:

1. Be admitted to a master's or doctoral program at UNLV for which social science research methods are an appropriate tool of inquiry.
2. Have earned at least a B+ in an approved research methods course.
3. Submit a completed application and the required application fee.
4. Must submit a “plan of study” that has been approved by a member of the Consortium Faculty and the home department's graduate coordinator.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 15

Course Requirements

Core Discipline Methods Coursework I – Credits: 3

- ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists
- PSC 701 - Research Design and Methodology
- SOC 701 - Logic of Social Inquiry
- COM 710 - Survey of Communication Studies
- ECO 770 - Econometrics I, Statistical Modeling
- CRJ 702 - Proseminar on Research Methods
- PSY 707 - Research Methods
- PUA 721 - Quantitative Methods for Public Administration
- PAF 710 - Theory and Design of Research

Core Discipline Methods Coursework II – Credits: 3

- ANTH 770 - Quantitative Methods in Anthropology
- PSC 702 - Advanced Quantitative Methods I
- PSY 708 - Statistics for Psychologists I
- SOC 702 - Quantitative Methods
- COM 712 - Empirical Research Methods
- ECO 772 - Econometrics II
- CRJ 703 - Proseminar on Statistics
- PUA 723 - Research and Analytical Methods
- PAF 711 - Advanced Seminar in Quantitative Research in Public Affairs

Graduate Catalog • College of Liberal Arts
Elective Methods Courses – Credits: 6
Complete 6 credits of advisor-approved methods course electives.

Outside Department Methods Course Electives – Credits: 3
Complete 3 credits of advisor-approved methods course electives from outside the home department.

Certificate Requirements
1. A completion of a minimum of 15 credit hours of social science methods courses.
2. The grade point average for all courses counted toward the degree is at least 3.00.
3. No grades lower than a B- are counted toward the certificate requirements.
4. Any changes to the plan of study has prior approval of the Certificate Coordinator

Plan Certificate Completion Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. The student must present original research in the Colloquium Series.

Anthropology
Our program, which has a strong field and laboratory component in addition to coursework, is designed to prepare our graduates to work in a variety of settings, including academia, applied anthropology, cultural resources management, and other research settings.

Daniel Benyshek, Ph.D., Chair
Alyssa Crittenden, Ph.D., Graduate Coordinator

Anthropology Faculty
Chair
Benyshek, Daniel - Full Graduate Faculty Professor; B.A. University of Colorado, Denver; M.A., Ph.D., Arizona State University. Rebel since 2001.

Graduate Coordinator
Crittenden, Alyssa- Full Graduate Faculty Associate Professor; B.A. University of California Santa Cruz; M.A., Ph.D., University of California San Diego. Rebel since 2012.

Graduate Faculty
Atici, Levent - Full Graduate Faculty Associate Professor; B.A., M.A., Ankara University; M.A., Ph.D., Harvard University. Rebel since 2007.

Bao, Jiemin - Full Graduate Faculty Professor; B.A., A.M., Ph.D., University of California, Berkeley. Rebel since 1997.

Byrnes, Jennifer- Full Graduate Faculty Assistant Professor, B.S., SUNY Geneseo; M.A., Ph.D., SUNY Buffalo. Rebel since 2019.

Chase, Arlen - Full Graduate Faculty Professor; B.A., M.A., Ph.D., University of Pennsylvania. Rebel since 2016.

Farahani, Alan - Full Graduate Faculty Assistant Professor, B.A., Rutgers University, M.A., Ph.D., University of California, Berkeley. Rebel since 2018.

Frick, Liam - Full Graduate Faculty Professor, B.A., M.A., Ph.D., University of Wisconsin, Madison. Rebel since 2005.

Gray, Peter - Full Graduate Faculty Professor, B.A., University of California Los Angeles; M.A., Ph.D., Harvard University. Rebel since 2005.

Harry, Karen - Full Graduate Faculty Professor; B.A., Texas A&M University; M.A., Ph.D., University of Arizona. Rebel since 2001.

Jankowiak, William - Full Graduate Faculty Professor; B.A., State University of New York; B.A., Ph.D., University of California, Santa Barbara. Rebel since 1991.

Lienard, Pierre - Full Graduate Faculty Associate Professor; Ph.D., Universite Libre de Bruxelles. Rebel since 2008.

Martin, Debra - Full Graduate Faculty Distinguished Professor; B.S., Cleveland State University, M.A., Ph.D., University of Massachusetts, Amherst. Rebel since 2006.

Roth, Barbara - Full Graduate Faculty Professor; B.S. University of Colorado; M.A., Ph.D., University of Arizona. Rebel since 2002.

Sandoval-Cervantes, Ivan Assistant Professor; B.A., Universidad de las Américas, Puebla; M.Sc., London School of Economics and Political Science; M.A., Ph.D., University of Oregon. Rebel since 2018.

Villmoare, Brian - Full Graduate Faculty Assistant Professor; B.A., University of Virginia, M.A., Ph.D., Arizona State University. Rebel since 2014.
Doctor of Philosophy - Anthropology

Plan Description

Our program, which has a strong field and laboratory component in addition to coursework, is designed to prepare our graduates to work in a variety of settings, including academia, applied anthropology, cultural resources management, and other research settings.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission & Registration Requirements.

2. Students entering with an approved M.A. will not be required to go through the department’s M.A. program, but they may be required to take remedial courses in the case of deficiencies. A background in Anthropology is preferred among applicants.

3. The applicant must have at least a 3.50 (A=4.00) grade point average for previous graduate work.

4. The applicant must submit an example of their previous research, preferably a published paper; a copy of their thesis or a relevant research paper is also acceptable.

5. The applicant must submit a detailed statement of intent (1-2 pages) outlining proposed research. In addition, the applicant must identify specific members of the faculty with whom they may wish to work.

6. Three letters of recommendation must be provided attesting to the applicant’s ability to conduct doctoral level work. At least two of the letters must be from academic references.

7. GRE scores are required for admission. There is no required minimum score, but scores will be used in combination with other information in the application to evaluate the applicant. The exam must be taken within five years preceding the deadline for the application to be considered.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

See Subplan Requirements below.

Subplan 3: Post-Bachelor’s Track - Non-Thesis
Subplan 1 Requirements: Post-Master’s Track
Total Credits Required: 42

Course Requirements

Required Courses - Credits: 8

Complete 8 credits from the following list of courses:

- ANTH 700A - Proseminar I
- ANTH 700B - Proseminar II
- ANTH 703 - Core Concepts in Anthropology
- ANTH 770 - Quantitative Methods in Anthropology
- ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Elective Courses - Credits: 22

Complete 22 credits of advisor-approved Anthropology electives.

Dissertation - Credits: 12

- ANTH 798 - Dissertation

Degree Requirements

1. A minimum of 30 credits of approved work beyond the M.A. plus 12 credits of dissertation must be completed. This will not include remedial courses.

2. Seventeen of the 30 units presented for the degree must be courses with the prefix ANTH at the 700-level (excluding Directed Readings, Independent Study, and Dissertation).

3. The 42 credits and any remedial work must be passed with a grade of B- or better. Classes in which a student receives a C+ or lower will not count towards his or her degree.

4. Any student receiving a C+ or lower will be placed on academic probation. Failure to meet the requirements of probation will result in separation from the graduate program.

5. Within the 42 credits, there will be a cap of four credits each of Independent Study and Directed Readings, and 12 credits for the Dissertation.

6. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. The student must pass a comprehensive examination. This exam will cover three topics, selected to relate to the student’s dissertation research area. The topics will relate to an area of (a) theory, (b) methodological or topical specialty, and (c) culture area. Students who fail in any portion of the exam will be placed on probation and may retake that portion of the exam any time prior to the end of the semester (excluding summer) following that during which the exam was first taken. A second failure of any portion of the re-taken exam or failure to meet the conditions of probation will result in termination from the doctoral program.

8. After passing the doctoral comprehensive examination, the student must submit to the department a written dissertation proposal approved by the dissertation committee prior to the commencement of fieldwork or research. The student also must present a defense of this proposal to the academic community. After successfully completing these tasks, the student is advanced to candidacy.

9. The student will then conduct approved anthropological research to gather data needed for writing the dissertation. This may involve fieldwork, laboratory research, or research on a theoretical topic, but in any case must represent an original contribution to knowledge.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Post-Bachelor’s Track
Total Credits Required: 75

Course Requirements

Required Courses - Credits: 11

- ANTH 700A - Proseminar I
- ANTH 700B - Proseminar II
- ANTH 703 - Core Concepts in Anthropology
- ANTH 770 - Quantitative Methods in Anthropology
- ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists
Elective Courses - Credits: 16-22

Anthropology electives to be determined in consultation with your advisor. Students completing a thesis must complete a minimum of 16 credits of elective coursework, and students completing a professional paper must complete a minimum of 22 credits of elective coursework.

Culminating Experience - Credits: 6 (Optional)

- ANTH 797 - Thesis

After successfully completing the requirements above, students are eligible to earn the Master of Arts in Anthropology.

Elective Courses - Credits: 30

Complete 30 credits of advisor-approved Anthropology electives.

Dissertation - Credits: 12

- ANTH 798 - Dissertation

Degree Requirements

1. A minimum of 75 credits of approved work beyond the bachelor’s must be completed. This will not include remedial courses.

2. A minimum of 33 credits of approved work beyond the bachelor’s must be completed for the M.A. degree.

3. Fourteen (for students completing a thesis) or seventeen (for students completing a professional paper) of the 33 units presented for the M.A. degree must be courses with the prefix ANTH at the 700-level (excluding Directed Readings, Independent Study, and Thesis).

4. A minimum of 30 credits of approved work beyond the M.A. plus 12 credits of dissertation (42 credits total) must be completed for the Ph.D. degree.

5. Fifteen of the 30 units presented for the Ph.D. degree must be courses with the prefix ANTH at the 700-level (excluding Directed Readings and Independent Study).

6. The 75 credits and any remedial work must be passed with a grade of B- or better. Classes in which a student receives a C+ or lower will not count towards his or her degree.

7. Any student receiving a C+ or lower will be placed on academic probation. Failure to meet the requirements of probation will result in separation from the graduate program.

8. Within the 75 credits, there will be a cap of four credits each of Independent Study and Directed Readings, and 12 credits for the Dissertation.

9. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

10. In consultation with his/her advisor, and as approved by the student’s committee, the student will complete one of two options for an MA in Anthropology en route to receiving their PhD: a) write a publishable professional paper or b) write a thesis. In consultation with the student, the student’s committee will decide which option the student will take. Each of these options will require a committee defense and department defense.

11. The student must pass a comprehensive examination. This exam will cover three topics, selected to relate to the student’s dissertation research area. The topics will relate to an area of (a) theory, (b) methodological or topical specialty, and (c) culture area. Students who fail in any portion of the exam will be placed on probation and may retake that portion of the exam any time prior to the end of the semester (excluding summer) following that during which the exam was first taken. A second failure of any portion of the re-taken exam or failure to meet the conditions of probation will result in termination from the doctoral program.

12. After passing the doctoral comprehensive examination, the student must submit to the department a written dissertation proposal approved by the dissertation committee prior to the commencement of fieldwork or research. The student also must present a defense of this proposal to the academic community. After successfully completing these tasks, the student is advanced to candidacy.

13. The student will then conduct approved anthropological research to gather data needed for writing the dissertation. This may involve fieldwork, laboratory research, or research on a theoretical topic, but in any case must represent an original contribution to knowledge.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. The student must submit and successfully defend his/her thesis or professional paper by the posted deadline. The defense must be advertised and is open to the public.

3. If a thesis is completed, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
4. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Post-Bachelor’s Track - Non-Thesis

Total Credits Required: 75

Course Requirements

Required Courses - Credits: 11

- ANTH 700A - Proseminar I
- ANTH 700B - Proseminar II
- ANTH 703 - Core Concepts in Anthropology
- ANTH 770 - Quantitative Methods in Anthropology
- ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Elective Courses - Credits: 16-22

Anthropology electives to be determined in consultation with your advisor. Students completing a thesis must complete a minimum of 16 credits of elective coursework, and students completing a professional paper must complete a minimum of 22 credits of elective coursework.

Culminating Experience - Credits: 6

- ANTH 795 - Culminating Experience

After successfully completing the requirements above, students are eligible to earn the Master of Arts in Anthropology.

Elective Courses - Credits: 30

Complete 30 credits of advisor-approved Anthropology electives.

Dissertation - Credits: 12

- ANTH 798 - Dissertation

Degree Requirements

1. A minimum of 75 credits of approved work beyond the bachelor’s must be completed. This will not include remedial courses.

2. A minimum of 33 credits of approved work beyond the bachelor’s must be completed for the M.A. degree.

3. Fourteen (for students completing a thesis) or seventeen (for students completing a professional paper) of the 33 units presented for the M.A. degree must be courses with the prefix ANTH at the 700-level (excluding Directed Readings, Independent Study, and Thesis).

4. A minimum of 30 credits of approved work beyond the M.A. plus 12 credits of dissertation (42 credits total) must be completed for the Ph.D. degree.

5. Fifteen of the 30 units presented for the Ph.D. degree must be courses with the prefix ANTH at the 700-level (excluding Directed Readings and Independent Study).

6. The 75 credits and any remedial work must be passed with a grade of B- or better. Classes in which a student receives a C+ or lower will not count towards his or her degree.

7. Any student receiving a C+ or lower will be placed on academic probation. Failure to meet the requirements of probation will result in separation from the graduate program.

8. Within the 75 credits, there will be a cap of four credits each of Independent Study and Directed Readings, and 12 credits for the Dissertation.

9. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

10. In consultation with his/her advisor, and as approved by the student’s committee, the student will complete one of two options for an MA in Anthropology en route to receiving their PhD: a) write a publishable professional paper or b) write a thesis. In consultation with the student, the student’s committee will decide which option the student will take. Each of these options will require a committee defense and department defense.

11. The student must pass a comprehensive examination. This exam will cover three topics, selected to relate to the student’s dissertation research area. The topics will relate to an area of (a) theory, (b) methodological or topical specialty, and (c) culture area. Students who fail in any portion of the exam will be placed on probation and may retake that portion of the exam any time prior to the end of the semester (excluding summer) following that during which the exam was first taken. A second failure of any portion of the re-taken exam or failure to meet the conditions of probation will result in termination from the doctoral program.
12. After passing the doctoral comprehensive examination, the student must submit to the department a written dissertation proposal approved by the dissertation committee prior to the commencement of fieldwork or research. The student also must present a defense of this proposal to the academic community. After successfully completing these tasks, the student is advanced to candidacy.

13. The student will then conduct approved anthropological research to gather data needed for writing the dissertation. This may involve fieldwork, laboratory research, or research on a theoretical topic, but in any case must represent an original contribution to knowledge.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. The student must submit and successfully defend his/her thesis or professional paper by the posted deadline. The defense must be advertised and is open to the public.

3. If a thesis is completed, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

---

Master of Arts - Anthropology

Plan Description

Our program, which has a strong field and laboratory component in addition to coursework, is designed to prepare our graduates to work in a variety of settings, including academia, applied anthropology, cultural resources management, and other research settings.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission & Registration Requirements.

2. In addition to the general admission requirements established by the Graduate College, a background in Anthropology is preferred. Deficiencies can be made up in consultation with a graduate advisor upon entrance to the program.

3. Applicants must submit a research paper representative of their undergraduate work. If the student did not major in anthropology as an undergraduate, a research paper in another field indicative of the student’s ability is acceptable.

4. Applicants must also submit an explicit letter of intent.

5. Three letters of recommendation must be provided attesting to the applicant’s ability to conduct graduate level work. At least two of the letters from academic references are preferred.

6. GRE scores are required for admission. There is no required minimum score, but scores will be used in combination with other information in the application to evaluate the applicant. The exam must be taken within five years preceding the deadline for the application to be considered.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: General Anthropology Track - Thesis

Subplan 2: General Anthropology Track - Non-Thesis

Subplan 3: Archeological Heritage Management Track - Thesis

Subplan 4: Archeological Heritage Management Track - Non-Thesis
Subplan 1: General Anthropology Track - Thesis
Total Credits Required: 33

Course Requirements

Required Courses – Credits: 11
• ANTH 700A - Proseminar I
• ANTH 700B - Proseminar II
• ANTH 703 - Core Concepts in Anthropology
• ANTH 770 - Quantitative Methods in Anthropology
• ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Elective Courses – Credits: 16
Complete 16 credits of advisor-approved Anthropology electives.

Thesis – Credits: 6
• ANTH 797 - Thesis

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2: General Anthropology Track - Non-Thesis
Total Credits Required: 33

Course Requirements

Required Courses – Credits: 11
• ANTH 700A - Proseminar I
• ANTH 700B - Proseminar II
• ANTH 703 - Core Concepts in Anthropology
• ANTH 770 - Quantitative Methods in Anthropology
• ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Elective Courses – Credits: 16
Complete 16 credits of advisor-approved Anthropology electives.

Culminating Experience – Credits: 6
• ANTH 795 - Culminating Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3: Archaeological Heritage Management Track - Thesis
Total Credits Required: 33

Course Requirements

Required Courses – Credits: 20
• ANTH 655 - Archaeological Theory
• ANTH 700A - Proseminar I
• ANTH 700B - Proseminar II
• ANTH 703 - Core Concepts in Anthropology
• ANTH 770 - Quantitative Methods in Anthropology
• ANTH 771 - Computer Applications for Anthropologists
• ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Methods Course – Credits: 3
Complete 3 credits from the following list of courses.
• ANTH 649A - Ceramic Analysis in Archaeology
• ANTH 649B - Lithic Artifact Analysis
• ANTH 649D - Zooarchaeology Laboratory

Regional Course – Credits: 3
Complete 3 credits from the following list of courses.
• ANTH 640B - Archaeology of the Great Basin
• ANTH 640C - Archaeology of the Southwest
• ANTH 641B - Near Eastern and Mediterranean Prehistory
• ANTH 754 - Archaeology and Paleoecology of the Great Basin
• ANTH 755 - Seminar in Archaeological and Historic Preservation

Internship – Credits: 1
Complete 1 credit of the following course.
• ANTH 796 - Cultural Resource Management Internship

Thesis – Credits: 6
• ANTH 797 - Thesis

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.
Graduation Requirements

See Plan Graduation Requirements below.

Subplan 4: Archeological Heritage Management Track – Non-Thesis
Total Credits Required: 33

Course Requirements

Required Courses – Credits: 20

- ANTH 655 - Archaeological Theory
- ANTH 700A - Proseminar I
- ANTH 700B - Proseminar II
- ANTH 703 - Core Concepts in Anthropology
- ANTH 755 - Seminar in Archaeological and Historic Preservation
- ANTH 770 - Quantitative Methods in Anthropology
- ANTH 771 - Computer Applications for Anthropologists
- ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists

Methods Course – Credits: 3

Complete 3 credits from the following list of courses:

- ANTH 649A - Ceramic Analysis in Archaeology
- ANTH 649B - Lithic Artifact Analysis
- ANTH 649D - Zooarchaeology Laboratory

Regional Course – Credits: 3

Complete 3 credits from the following list of courses:

- ANTH 640B - Archaeology of the Great Basin
- ANTH 640C - Archaeology of the Southwest
- ANTH 641B - Near Eastern and Mediterranean Prehistory
- ANTH 754 - Archaeology and Paleocoeology of the Great Basin
- ANTH 755 - Seminar in Archaeological and Historic Preservation

Internship – Credits: 1

Complete 1 credit of the following course:

- ANTH 796 - Cultural Resource Management Internship

Culminating Experience – Credits: 6

- ANTH 795 - Culminating Experience

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.
AAS 636 - Politics of Racial Ambiguity  Credits 3
Interdisciplinary investigation of contemporary American black/white multiracial identities, including analyses and assessments of the multiracial identity movement in the United States. Notes: This course is crosslisted with AAS 436. Credit at the 600-level requires additional work.

ANTH 609 - Economic Anthropology  Credits 3
Comparative study of preliterate and peasant economic systems, with particular attention paid to the relation of these systems to the social and cultural arrangements of these societies. Notes: This course is crosslisted with ANTH 409. Credit at the 600-level requires additional work.

ANTH 617 - Evolution & Culture: ‘Darwinian’ Models of Culture  Credits 3
Humans depend on complex cultures for their survival. Why it is the case, how it is made possible and how fundamentally culture affects humans have always been essential focuses of the anthropological research. The courses will present the main models of cultural evolution found currently in the anthropological literature. Notes: This course is crosslisted with ANTH 417. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

ANTH 622 - Psychological Anthropology  Credits 3
Examines how culture influences the development of character and conduct in non-western societies. Provides cross-cultural research findings on socialization, aggression, sexual behavior, mental illness and social pathology. Research findings from small-scale and complex societies from around the globe are evaluated. Same as ANTH 422 Notes: This course is crosslisted with ANTH 422. Credit at the 600-level requires additional work.

ANTH 626 - Medical Anthropology  Credits 3
Overview of medical anthropology, covering such topics as disease and human evolution, ecology of disease, and culture-centered approaches in the field, including ethnomedicine (cross-cultural conceptions of health and illness), healers in global perspective, and medicine practiced in clinical and public health settings in societies around the world. Notes: This course is crosslisted with ANTH 426. Credit at the 600-level requires additional work.

ANTH 627 - Cultures and Cognition  Credits 3
Focuses on the interactions between culture, cognition and behavior. Explores a variety of non-western cultures to identify how social and psychological perspectives are formed and influence behavior. Models and case studies found in social sciences are used to discuss the relationship between cognition and cultural behaviors. Notes: This course is crosslisted with ANTH 427. Credit at the 600-level requires additional work. Prerequisites: ANTH 101 or ANTH 102 or ANTH 105 or equivalent.

ANTH 634 - Ethnology  Credits 3
Methodological study applying anthropological concepts to early written sources and recorded oral tradition. Cross-cultural comparisons. Notes: This course is crosslisted with ANTH 434. Credit at the 600-level requires additional work.

ANTH 638 - Ethnographic Field Methods  Credits 3
Surveys methods and techniques of field work. Students do weekly ethnographic projects and write short reports. Notes: This course is crosslisted with ANTH 438. Credit at the 600-level requires additional work.

ANTH 640B - Archaeology of the Great Basin  Credits 3
Explores the prehistory of the Great Basin and surrounding areas, including the Mojave Desert. Examines the Paleoindian, Archaic, and later prehistoric occupation of the region, focusing on the evidence archaeologists use to reconstruct past behavior and how the environment influenced prehistoric peoples in the area. Notes: This course is crosslisted with ANTH 440B. Credit at the 600-level requires additional work.

ANTH 640C - Archaeology of the Southwest  Credits 3
Prehistory of the American Southwest, focusing on development of the Anasazi, Hohokam and Mogollon cultures and their antecedents 2000 B.C. to A.D. 1500. Notes: This course is crosslisted with ANTH 440C. Credit at the 600-level requires additional work.

ANTH 640E - Archeology of Mexico and Central America  Credits 3
Designed to provide an introduction to the prehistory of the peoples of Mesoamerica. Provides a definition of their common cultural background and to examine the archaeological record concerning the origins of these various societies to their rise into complex indigenous civilization. Notes: This course is crosslisted with ANTH 440E. Coursework at the 600-level requires additional work.

ANTH 641B - Near Eastern and Mediterranean Prehistory  Credits 3
Reviews Near Eastern and Mediterranean archaeology from the earliest evidence of humans in the region through the origins and development of farming and food production. Examines foundations for civilization in Egypt and Mesopotamia and the colonization of islands of the Mediterranean Sea. Notes: This course is crosslisted with ANTH 441B. Credit at the 600-level requires additional work.

ANTH 641C - Peoples and Cultures of Ancient Near East  Credits 3
Near East is one of the great culture areas of the ancient and modern worlds. The course focuses on the role of religion, economy, political power, social identity, art, and environment on cultures and peoples of the Near East from a historical and archaeological perspective.

ANTH 643 - Environmental Archaeology  Credits 3
Examines human adaptations to various environments, techniques from the environmental sciences. Analysis of ancient human and environmental interactions stressing arid lands. Human impacts upon the landscape, constraints imposed by ecological variables, and techniques used in environmental reconstruction. Notes: This course is crosslisted with ANTH 443. Credit at the 600-level requires additional work.

ANTH 644 - Bioarchaeology  Credits 3
Method and theory for the study of human remains in archaeological contexts. Formerly ANTH 673 Notes: This course is crosslisted with ANTH 444. Credit at the 600-level requires additional work.

ANTH 649A - Ceramic Analysis in Archaeology  Credits 3
Introduction to the laboratory analysis of archeological ceramics. Emphasizes theories and techniques used to reconstruct past human behavior from the study of prehistoric and historic ceramics. Notes: This course is crosslisted with ANTH 449A. Credit at the 600-level requires additional work.

ANTH 649B - Lithic Artifact Analysis  Credits 3
Designed to provide general background on lithics and lithic analysis. Explores lithic technology, typology, and interpretations of lithic assemblage variability. Notes: This course is crosslisted with ANTH 449B. Credit at the 600-level requires additional work.

ANTH 649C - Laboratory Methods in Archaeology  Credits 3
Designed to provide students with an introduction to the archaeological laboratory, covering how and why materials are processed and examining the various substances that can be recovered in the field. Also addresses both the field illustration of these materials and their final presentation. Notes: This course is crosslisted with ANTH 449C. Coursework at the 600-level requires additional work.

ANTH 649D - Zooarchaeology Laboratory  Credits 3
Enables students to identify, document, analyze, interpret, and report archaeological animal bone assemblages. Addresses theoretical, methodological, and analytical issues that are significant in designing and conducting zooarchaeological research. Formerly: ANTH 649C Notes: This course is crosslisted with ANTH 449D. Credit at the 600-level requires additional work. Prerequisites: Consent of instructor

ANTH 655 - Archaeological Theory  Credits 3
Surveys major theoretical approaches used in archaeology. Examines historical development of these theories and discusses their practical application. Notes: This course is crosslisted with ANTH 455. Credit at the 600-level requires additional work.
ANTH 656 - Archaeology of Technology Credits 3
Explores the methodological and theoretical developments in archaeological research on technology and the challenges of connecting materials with human behavior and intent in the past. Notes: This course is crosslisted with ANTH 456. Credit at the 600 level requires additional work. Prerequisites: Consent of instructor.

ANTH 657 - Archaeology of Complex Societies and Archaic States Credits 3
Focus on the archaeology of complex societies and archaic states. We probe the origins and development of the archaic states in Mesopotamia, Egypt, Indus Valley, Central Asia, China, and Mesoamerica. We “critically” review archaeologists’ “interpretations” regarding major environmental, social, political, religious, and economic factors as prime movers. Grading: Letter grade Prerequisites: Graduate standing.

ANTH 658 - Origins of Inequality: A Cross-cultural Perspective Credits 3
This course uses origins of inequality to understand how societies and their culture developed differently across time and space. A cross-cultural emphasis enables the student to appreciate the factors responsible for the rise of different modes of sociopolitical organization around the globe and to realize the complexity of human experience. Notes: This course is crosslisted with ANTH 458. Credit at the 600-level requires additional work.

ANTH 660 - Primate Evolution Credits 3
Detailed examination of the fossil record of primate and human evolution to assess taxonomy, locomotor strategies, and diet. Topics emphasized include the evolution of apes, the origin of our lineage, bipedalism, brain and language evolution, and the origin of modern humans. This course is crosslisted with ANTH 460. Credit at the 600-level requires additional work.

ANTH 662 - Human Osteology: Archaeological and Forensic Applications Credits 4
Utilization of physical anthropological methods of bone analysis applied to the identification of human and non-human skeletal remains. Notes: This course is crosslisted with ANTH 462. Credit at the 600 level requires additional work.

ANTH 664 - Dental Anthropology: Archaeological and Forensic Applications Credits 3
Dental morphology, growth and development, and dental variability in modern populations. Techniques used to reveal information about past diets, health, and behavior. Forensic odontology. Major stages in the evolution of the dentition, with particular focus on primate and human dental evolution. Lab fee required. Notes: This course is crosslisted with ANTH 464. Credit at the 600-level requires additional work.

ANTH 665 - Human Growth and Aging Credits 3
Explores, how humans grow, mature, and age in a variety of non-western cultures. Addresses social and biological factors that shape peoples’ decisions about when to begin reproducing, how many offspring to have, when to wean, and style of parenting, as well as those impacting physical age changes and lifespan. Notes: This course is crosslisted with ANTH 465. Credit at the 600-level requires additional work.

ANTH 667 - Health and Disease in Antiquity Credits 3
Covers paleopathology, or, the study of disease in ancient populations. Provides an overview of morbidity and mortality over the last 20,000 years for many different populations from around the globe. Information on disease is drawn from human skeletal and mummified remains, and from archaeological reconstructions of lifestyle and diet. Notes: This course is crosslisted with ANTH 467. Credit at the 600-level requires additional work.

ANTH 669 - Evolution of Human Behavior Credits 3
Reviews relevant theory and primary approaches—evolutionary psychology and behavioral ecology—for investigating human behavior from an evolutionary perspective. Topics include cooperation, mate choice, parenting, pair bonding, aggression, language and culture. Notes: This course is crosslisted with ANTH 469. Credit at the 600 level requires additional work.

ANTH 671 - Evolution of Human Sexuality Credits 3
Examines human sexuality from an evolutionary perspective. Major themes include basics of evolutionary theory, comparisons with other non-human primates, cross-cultural and historical variation in human sexuality and consideration of the neuroendocrine bases of sexual behavior. Topics include sexual selection, mating systems, and sexual orientation. Notes: This course is crosslisted with ANTH 471. Credit at the 600-level requires additional work.

ANTH 673R - Anthropology of Violence Credits 3
An overview on the history of aggression, violence and trauma in human groups. Interpersonal and institutional forms of violence are examined from an anthropological perspective. The goal of the course is to explore a number of theoretical frameworks used by anthropologists to understand violence. Notes: This course is crosslisted with ANTH 473. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

ANTH 675 - Evolutionary Medicine Credits 3
This course provides an introduction to evolutionary medicine, a relatively new and exciting field that emphasizes the interplay between human evolutionary history, adaptation, and proximate mechanisms. Examples are drawn from societies around the world. Topics include growth, reproduction, diet, activity patterns, aging and infectious and chronic disease. Notes: This course is crosslisted with ANTH 475. Credit at the 600-level requires additional work.

ANTH 685 - Language and Culture Credits 3
Examines the interaction of language and culture, focusing on basic aspects of linguistics, models for the study of language use, and intersections of language with gender, power, and status cross-culturally. Notes: This course is crosslisted with ANTH 485. Credit at the 600-level requires additional work.

ANTH 688 - Archaeology Field Practicum Credits 1-6
ARCHAEOLOGY FIELD PRACTICUM Notes: May be repeated to a maximum of nine credits. Grading: Letter grade

ANTH 700A - Proseminar I Credits 1
Orientation for entering anthropology graduate students. Presents the program's expectations and policies, and introduces students to faculty research and expertise within the department. Grading: S/F grading only. Prerequisites: Graduate standing/permission of instructor.

ANTH 700B - Proseminar II Credits 1
Continuation of the orientation begun in ANTH 700A. Develops students’ appreciation of professionalism and develops the skills necessary for academic presentations. Presents the current research of advanced anthropology graduate students. Grading: S/F grading only. Prerequisites: Graduate standing/permission of instructor.

ANTH 701 - Directed Reading in Anthropological Literature Credits 1-4
Critical reading and evaluation of anthropological scholarship. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only.

ANTH 703 - Core Concepts in Anthropology Credits 3
Course explores the intellectual foundations of critical thinking and practice in Anthropology (Cultural, Biological, Archaeology, and Linguistics). Examines anthropological theory as it has been manifested in studies of human evolution, cultural materialism, historical analysis, and cultural interpretation. Prerequisites: Graduate standing.

ANTH 735 - Seminar on Classic Ethnographies Credits 3
Classic ethnographies read in the original, selected to represent a wide range of culture types, culture areas, and theoretical perspectives. Broadens and deepens students' control of the professional database, while exploring how data support theoretical constructs and how theory in turn informs ethnographic methods and descriptions. Prerequisites: Graduate standing.

ANTH 741 - Seminar in Cultural Processes Credits 3
Courses on culture change on selected topics. Notes: Topics to be announced. May be repeated to a maximum of 12 credits. Prerequisites: Consent of instructor.
ANTH 744 - Identity, Culture and Power Credits 3
Examines how transnational migration and globalization affect our understanding of identity, culture, and power relations. What is identity? Why isn’t identity fixed? What is the relationship between the local and the global? Seminar explores these questions focusing on themes of identity, culture, and power.

ANTH 751 - Seminar on Current Problems in Archaeology Credits 3
Varies by semester; addresses topics concerning archaeological method and theory. Notes: May be repeated to a maximum of six credits.

ANTH 753 - Seminar in Cultural Adaptations to Arid Environments Credits 3
Addresses the problems of human cultural adaptations to arid environments, with special attention given to technological and social responses to these environments. Prerequisites: ACC 703

ANTH 754 - Archaeology and Paleocology of the Great Basin Credits 3
Examines paleoenvironments and prehistory of the Great Basin and intermountain west, including Nevada and surrounding states. Issues include Pleistocene and Holocene paleoenvironmental reconstruction, Paleohindian and Archaic adaptations, Fremont culture, and spread of Numic-speaking populations. Field trip. Prerequisites: Graduate standing or consent of instructor.

ANTH 755 - Seminar in Archaeological and Historic Preservation Credits 3
Management of archaeological resources; laws and policies protecting archaeological sites, methods of identification, and evaluation of archaeological resources; the interface of archaeological preservation and archaeology as a scientific discipline.

ANTH 756 - Archaeology of Hunter-Gatherers Credits 3
Course examines hunter-gatherers throughout the world, focusing on paleoenvironment, land use, subsistence, and social interaction. Prerequisites: Consent of instructor.

ANTH 757 - Seminar in Southwestern Archaeology Credits 3
Examines the prehistoric societies of the American Southwest, including the Hohokam, Mogollon, and Anasazi; issues include origins, social organization, subsistence, production, distribution and exchange, and the dynamics of change in the region. Prerequisites: ANTH 418 or consent of instructor.

ANTH 758 - Seminar in Agricultural Origins Credits 3
Examines the circumstances surrounding the transition from hunting and gathering to food production throughout the world. Evaluates both the theoretical framework and empirical database for understanding this transition and the consequences of the shift to agricultural production.

ANTH 761 - Seminar on Current Thought in Physical Anthropology Credits 3
Topics to be announced. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

ANTH 762 - Laboratory Seminar on Osteology Credits 3
‘Hands-on’ class relevant to research and analysis in human osteology and palaeopathology. Laboratory analysis of osteological and palaeopathological materials available in the Physical Anthropology Laboratory. Methods of age, sex, ethnic determinations, discrete morphological, anthropometric, and palaeopathological research and analysis. Prerequisites: ANTH 462

ANTH 763 - Paleoanthropology Credits 3
Current issues in and evidence for human biocultural evolution. Include finding, dating, and naming fossil hominids, the effect of climate on hominid evolution, as well as issues in paleobiology, functional anatomy, prehistoric archaeology, and geomorphology. Prerequisites: Consent of instructor.

ANTH 764 - Seminar: Medical Anthropology Credits 3
Explores the evolution and cross-cultural understanding of human health, healing and disease. Includes extensive examination and critical evaluation of evolutionary, biocultural and culturally-centered approaches in medical anthropology. Prerequisites: Consent of instructor.

ANTH 765 - New Approaches in Biocultural Methods and Theory Credits 3
Highlights a topic at the intersection of biological and cultural perspectives. Features theoretical, empirical and methodological aspects. Can vary in topic each time it is taught. Notes: May be repeated to a maximum of six credits. Grading: Letter grade

ANTH 770 - Quantitative Methods in Anthropology Credits 3
Provides practical introduction to the uses of computers for statistical analysis, data gathering and storage, computer modeling and computer-assisted instruction as applies in anthropology. Every student carries out one or more projects requiring the use of computers. Prerequisites: MIS 101 or CSC 115 or equivalent or consent of instructor.

ANTH 771 - Computer Applications for Anthropologists Credits 3
Anthropologists depend on computers in every aspect of their work from data collection and recording to subsequent analyses and presentation, and ultimately publication. This course helps students develop computer literacy and proficiency, and introduces students to a multitude of software platforms to make academic and professional life easier.

ANTH 772 - Computer Modeling for Anthropologists Credits 3
Use of computer programming to develop customized statistical tests, and create computer models for simulations of evolutionary change, decision-making, etc. Instruction provided in a Visual Basic Applications (VBA) development environment. Prerequisites: ANTH 770 or permission of instructor.

ANTH 790 - Research Design, Professional Ethics, and Grant Writing for Anthropologists Credits 3
Class components include ethics relating to data acquisition and sharing, formulating cohesive and compelling research questions, and the mechanics of proposal preparation required in professional practice. All students will be required to prepare and present a research proposal. Prerequisites: Graduate standing or consent of instructor.

ANTH 795 - Culminating Experience Credits 3 - 6
Research, analysis and writing towards completion of a non-thesis MA and defense. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only.

ANTH 796 - Cultural Resource Management Internship Credits 3
Students work with an archaeologist both in field and office situations, focusing on identification and evaluation of sites; writing technical reports and examining the development of correspondence between federal agencies and contracting archaeologists. Prerequisites: One field class (ANTH 453, 458, 486) and one lab class (ANTH 452, 458) or one summer field school (ANTH 487, 488), senior or graduate standing and recommendation of UNLV faculty coordinator.

ANTH 797 - Thesis Credits 3 - 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

ANTH 798 - Dissertation Credits 3 - 12
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated but only 12 credits will be applied to the student’s program. Grading: S/F grading only.

ANTH 799 - Independent Research Credits 1 – 4
Study of selected topics under the direction of a faculty member. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only.
English

The Department of English offers programs of study leading to the master of arts, master of fine arts, and doctor of philosophy degrees. The M.A. program involves coursework at the graduate level in English and American literature or in language/composition studies. Work toward this degree is designed to supplement and advance the student’s undergraduate study in the field of English and to familiarize the student with professional standards, research methods, and modes of thought in the discipline. Possession of this degree typically leads to professional advancement for the secondary school or community college teacher; to careers in writing, editing, and publishing; or to further study in English at the doctoral level.

The MFA program is designed to be a three-year, intensive studio arts terminal degree with a strong international emphasis and requires the writing of a book-length creative thesis in either fiction or poetry. The objectives of the MFA degree are to enable the student to master the craft of writing in the chosen genre to a publishable level; to train the student in both traditional literary topics and writing pedagogy to the end of a teaching career at the college or university level; and to provide the student with an international perspective on both the creation and publication of fiction or poetry and on the teaching and appreciation of literature.

The Ph.D. program is a highly specialized program designed to train a student for a career in teaching at the college or university level through the development of skills in research, original thought, and academic writing. The doctoral program is primarily devoted to literary studies, although a concentration of six credits may be earned in composition studies. Upon admission a student chooses, with the approval of his or her advisor, three areas in which to specialize: (1) a chronological period, (2) a literary genre, and (3) a major author from outside the chosen chronological period, an additional chronological period, (2) a literary genre, and (3) a major author from outside the chosen chronological period, an additional chronological period, (2) a literary genre, and (3) a major author from outside the chosen chronological period, an additional chronological period. All course work is then dedicated to acquiring knowledge and a high degree of professional competence in the three chosen areas of specialization. Such knowledge is tested in a qualifying examination, the successful completion of which allows the student to advance to the writing and defense of the doctoral dissertation.

The department also offers a program leading to the degree of Doctor of Philosophy in English with a Creative Dissertation. This program centers on the study of English and American literature and is designed to train a student for a career in the teaching of English at the college or university level, as well as for a career in writing, editing, and publishing. The program of study includes course work in English and creative writing, a qualifying examination, and a creative dissertation.

Gary Totten, Ph.D., Chair
Kelly Mays, Ph.D., Graduate Coordinator

English Faculty

Chair
Totten, Gary - Full Graduate Faculty Professor; B.A., M.A., Brigham Young University; Ph.D., Ball State University. Rebel since 2016.

Graduate Coordinator
Mays, Kelly J. - Full Graduate Faculty Associate Professor; B.A., Emory University; Ph.D., Stanford University. Rebel since 2001.

Director of Creative Writing
Unger, Douglas - Full Graduate Faculty Professor; B.A., University of Chicago; M.F.A., University of Iowa. Rebel since 1991.

Graduate Faculty
Becker, Megan L. - Full Graduate Faculty Associate Professor; B.A., Bryn Mawr College; M.A., Ph.D., University of California, Irvine. Rebel since 1999.

Bowers, John M. - Full Graduate Faculty Professor; B.A., Duke University; M.A., Ph.D., University of Virginia; M.Phil., Oxford University. Rebel since 1987.

Brown, Stephen - Full Graduate Faculty Professor; B.A., University of California, Santa Barbara, M.A., Ph.D., University of South Florida. Rebel since 2002.

Campbell, Felicia Florine - Full Graduate Faculty Professor; B.S., M.S., University of Wisconsin, Madison; Ph.D., United States International University, San Diego. Rebel since 1962.

Chapman, Maile - Full Graduate Faculty Assistant Professor; B.A. Evergreen State College; M.F.A., Syracuse University; Ph.D., University of Nevada, Las Vegas. Rebel since 2011.

Clinnin, Kaitlin - Full Graduate Faculty Assistant Professor; B.A. University of North Carolina at Greensboro; M.A., Virginia Tech; Ph.D., The Ohio State University. Rebel since 2017.

Decker, Christopher - Full Graduate Faculty Associate Professor; B.A., Yale University; Ph.D., Cambridge University. Rebel since 2004.

Erwin, Timothy - Full Graduate Faculty Professor; B.A., Marquette University; M.A., Ph.D., University of Chicago. Rebel since 1990.

Gajowski, Evelyn - Full Graduate Faculty Professor; B.A., Cleveland State University; M.A., Ph.D., Case Western Reserve University. Rebel since 1991.

Hay, John - Full Graduate Faculty Associate Professor; B.A., University of Pittsburgh; M.A., M. Phil., Ph.D., Columbia University. Rebel since 2013.

Jablonski, Jeffrey A. - Full Graduate Faculty Associate Professor; B.A., M.A., State University of New York College at Buffalo; Ph.D., Purdue University. Rebel since 2000

Johnson, Javon - Full Graduate Faculty Assistant Professor; B.A., M.A., California State University at Los Angeles; Ph.D., Northwestern University. Rebel since 2017.

Keelan, Claudia - Full Graduate Faculty Professor; B.A., Humboldt State University; M.F.A., University of Iowa. Rebel since 1996.

Morris, David - Full Graduate Faculty Assistant Professor; B.A., Texas A&M University; M.A., San Diego State University; M.F.A., University of California, Irvine. Rebel since 2017.

Nagelhout, Edwin - Full Graduate Faculty Professor; B.A., California State University-Fullerton; M.A., Ph.D., Purdue University. Rebel since 2005.

Orduña, José Roach - Full Graduate Faculty Assistant Professor; B.A., Columbia College Chicago; M.F.A., University of Iowa. Rebel since 2017.

Perez, Vincent - Full Graduate Faculty Associate Professor; B.A., University of California, Santa Cruz; M.A., Ph.D., Stanford University. Rebel since 1999.
Revell, Donald - Full Graduate Faculty Professor; B.A., Harpur College at Binghamton University; M.A., State University of New York at Binghamton; Ph.D., State University of New York at Buffalo. Rebel since 2008.

Rosenberg, Beth Carole - Full Graduate Faculty Associate Professor; B.A., Douglass College, Rutgers University; M.S., Ph.D., New York University. Rebel since 1994.

Rusche, Philip - Full Graduate Faculty Associate Professor; B.A., M.A., Emory University; M.A., M.Phil., Ph.D., Yale University. Rebel since 1998.

Setina, Emily - Full Graduate Faculty Associate Professor; B.A., Davidson College; Ph.D., Yale University. Rebel since 2014.

Sexton, Steven - Full Graduate Faculty Assistant Professor; B.A., University of New Mexico; M.A., Ph.D., University of Oklahoma. Rebel since 2018.

Stevens, Anne H. - Full Graduate Faculty Professor; B.A., University of Chicago; M.A., Ph.D., New York University. Rebel since 2004.

Teague, Jessica E. - Full Graduate Faculty Assistant Professor; B.A., University of California, Los Angeles; M.A., Ph.D., Columbia University. Rebel since 2014.

Tillery, Denise - Full Graduate Faculty Professor; B.A., Ph.D., University of New Mexico; M.A., University of North Carolina. Rebel since 2004.

Whiteside, Brianna - Full Graduate Faculty Assistant Professor; B.A., Tougaloo College; M.A., Southern Illinois University – Edwardsville; Ph.D., The University of Alabama. Rebel since 2018.

Professors Emeriti

Coburn, W. Leon - Emeritus Associate Professor; B.A., University of New Mexico; M.A., Ph.D., University of California, Davis. Joined UNLV 1969.


Geuder, Patricia - Emerita Associate Professor; B.A., M.E., University of Nevada, Reno; Ph.D., University of New Mexico. Joined UNLV 1969.

Hafen, Jane - Full Graduate Faculty Emerita Professor; B.A., M.A., Brigham Young University; Ph.D., University of Nevada, Las Vegas. Rebel since 1993.

Hazen, James F. - Emeritus Professor; B.A., Princeton University; M.S., Ph.D., University of Wisconsin. Joined UNLV 1971.


McCullough, Joseph B. - Full Graduate Faculty Emeritus Distinguished Professor; B.Ed., Gonzaga University; M.A., Ph.D., Ohio University. Joined UNLV 1969.

Unrue, Darlene Harbour - Emerita Distinguished Professor; B.A., M.A., Marshall University; Ph.D., The Ohio State University. Joined UNLV 1972.


Weinstein, Mark A. - Emeritus Distinguished Professor; B.A., Cornell University; M.A., Ph.D., Yale University. Joined UNLV 1970.

Whitney, Charles - Full Graduate Faculty Professor; B.A., San Francisco State College; Ph.D., City University of New York. Rebel since 1988.

Wiley, Richard - Full Graduate Faculty Emeritus Professor; B.A., University of Puget Sound; M.A., Sophia University; M.F.A., University of Iowa. Rebel since 1989.

Doctor of Philosophy - English

Plan Description

The Ph.D. program is a highly specialized program designed to train students for careers in teaching at the college or university level and to develop in them a capacity for research, original thought, and writing that ordinarily accompanies such careers. The doctoral program is focused on literary study although a concentration of six credits may be earned in composition studies. At the time of admission the student chooses three areas in which to specialize: (1) a chronological period, (2) a literary genre, and (3) either an additional chronological period, a major author chosen from outside the selected chronological period and approved by the graduate committee, or a special topic approved by the graduate committee. All subsequent course work is devoted to developing a high degree of professional competence and knowledge in the three chosen areas of specialization. Such knowledge is tested in a qualifying examination and is also the basis upon which the student writes a doctoral dissertation.

The English Department, in conjunction with the Beverly Rogers, Carol C. Harter Black Mountain Institute, offers a program leading to the degree Doctor of Philosophy--English with Creative Dissertation. This program centers on the study of English and American Literature and is designed to train students for careers in the teaching of English at the college or university level, as well as for careers in writing, editing, and publishing. The program of study includes coursework in English and Creative Writing, a Qualifying Examination, and a Creative Dissertation, typically a collection of original poems, literary nonfiction, short stories, a novel, or a cross-genre manuscript. Differences in the requirements for admission and degree requirements between the two Ph.D. programs are indicated below. Additional details for the admission requirements and the degree requirements for each degree can be found on the English Department website.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Doctor of Philosophy - English
- Doctor of Philosophy - English with Creative Dissertation

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission & Registration Requirements.

1. All applicants must possess a B.A. in English or a related field from a regionally accredited university. Post-master’s applicants must possess an M.A. in English or a related field from a regionally accredited...
institution with at least 21 graduate credits and a graduate GPA of 3.50 or better.

a. Students wishing to enter the Creative Writing Track may possess either an M.A. in English or a related field as stated above or an M.F.A. in Creative Writing from an accredited institution.

2. Applicants must submit the following to the English department:

a. Applicants must send one official set of transcripts from all colleges or universities attended to the Graduate College through the Grad Rebel Gateway portal.

b. Official scores on the Verbal portion of the General Test and the Literature in English Subject Test of the Graduate Record Examination.

c. Three letters of recommendation specifically for Ph.D. study from professors of English.

d. Two or three writing samples totaling at least 30 pages of literary criticism, history or analysis and offering substantial evidence of the student’s ability to do work at the doctoral level.

e. Students applying for the Ph.D. with Creative Dissertation must submit a creative writing sample of fiction, literary nonfiction, or poetry, of not less than 40 pages and not more than 100 pages, to be read and appraised by the Creative Writing faculty. The strength and quality of the writing sample in the opinion of the faculty is the primary basis for selection for admission.

f. A letter of application to the Graduate Committee stating the applicant’s reasons for wanting to enter the program and the intended areas of specialization.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 3: Post-Bachelor’s Literature Track

Subplan 1 Requirements: Post-Master’s Literature Track
Total Credits Required: 48

Course Requirements

Required Course – Credits: 3
  • ENG 703 - Survey of Literary Criticism and Theory

Elective Courses – Credits: 33
Complete 33 credits in graduate-level advisor-approved English courses.

Dissertation – Credits: 12
  • ENG 799 - Dissertation

Degree Requirements

1. Of the required 36 course credits, all credits must be taken at the 700-level. Six of these may be earned with a concentration in Composition Studies.

2. Courses completed at a grade below a B will not count towards the degree, and any student receiving more than one grade below a B will be separated from the graduate program.

3. Only 6 credits of Independent Study can be applied to the program.

4. Only 3 credits of ENG 798 (Doctoral Research) can be applied to a program.

5. Demonstration of reading knowledge of two foreign languages or proficiency in one. Proficiency in a language is demonstrated by completion of two upper-division or graduate courses in the literature of that language with a B or better; or by passing a translation test administered and evaluated by English Department faculty fluent in that language.

6. In consultation with his/her advisor, a student will organize a dissertation Advisory Committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. Qualifying Examinations: Superior performance is required on qualifying examinations in the student’s three areas of specialization. These examinations consist of three four-hour written exams: one in the historical period of specialization, one in the genre of specialization, and a third in an additional chronological period, a major author approved by the graduate committee, or a special topic approved by the graduate committee, and a two-hour oral examination. For more information visit the English department’s website here: English Literature PhD Requirements.
8. After passing the Qualifying Examination, and normally in the third or fourth year of the program, the student will begin a doctoral dissertation under the direction of an Advisor and Advisory Committee approved by the Graduate Director of the Department. The Prospectus for this Dissertation must be approved, and the Dissertation written, under the close supervision of the Advisor and Advisory Committee. The doctoral dissertation involves original thought and superior scholarship on a topic or author in English or American literature, or world literature in English.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Creative Dissertation Track

Total Credits Required: 48

Course Requirements

Required Course – Credits: 6
Complete 6 credits in one of the following:

• ENG 705 - Creative Writing Workshop
• ENG 796 - Independent Study

Elective Courses – Credits: 30
Complete 30 credits in non-creative writing English courses.

Credits may include ENG 729 - Forms of Fiction, Literary Nonfiction, or Poetry, to be taken once.

Credits may include ENG 791 - College Teaching in Language and Literature

Dissertation – Credits: 12

• ENG 799 - Dissertation

Degree Requirements

1. Of the required 36 course credits, all credits must be taken at the 700-level.

2. Courses completed at a grade below a B will not count towards the degree, and any student receiving more than one grade below a B will be separated from the graduate program.

3. Only 6 credits of Independent Study can be applied to the program.

4. Only 3 credits of ENG 798 (Doctoral Research) can be applied to the program.

5. Demonstration of reading knowledge of one foreign language.

6. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. Qualifying Examinations: Superior performance is required on qualifying examinations in the student’s three areas of specialization. These examinations consist of three four-hour written exams: one in the historical period of specialization, one in the genre of specialization, and a third in an additional chronological period, a major author approved by the graduate committee, or a special topic approved by the graduate committee, and a two-hour oral examination. The Qualifying Examination is normally taken at the end of the second year or at the beginning of the third.

8. A student pursuing the Ph.D. in English with Creative Dissertation is expected to write the dissertation in fiction, poetry, or literary nonfiction throughout all three years of the program, under the supervision of the student’s Advisor. The Prospectus for the Creative Dissertation is only approved, however, after a student has passed the Qualifying Examination. The Prospectus must be approved by the student’s Advisory Committee, which includes the Advisor.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s Literature Track

Total Credits Required: 75

Course Requirements

Required Courses - Credits: 6

• ENG 700 - Bibliography and Methods
• ENG 703 - Survey of Literary Criticism and Theory

Elective Courses - Credits: 21

Complete 21 credits in graduate-level advisor-approved English courses.

After successfully completing the requirements above, students are eligible to earn the Master of Arts - English.

Elective Courses - Credits: 36

Complete 36 credits in graduate-level advisor-approved English courses.

Dissertation - Credits: 12 credits

• ENG 799 - Dissertation

Degree Requirements

1. Of the required course credits, all credits must be taken at the 700-level. Six of these may be earned with a concentration in Composition Studies.
2. Courses completed at a grade below a B will not count towards the degree, and any student receiving more than one grade below a B will be separated from the graduate program.

3. Only 6 credits of Independent Study can be applied to the program.

4. Only 6 credits of ENG 798 (Doctoral Research) can be applied to a program.

5. Demonstration of reading knowledge of two foreign languages or proficiency in one. Proficiency in a language is demonstrated by completion of two upper-division or graduate courses in the literature of that language with a B or better; or by passing a translation test administered and evaluated by English Department faculty fluent in that language.

6. In consultation with the advisor, the student will compile a portfolio to be assessed in order to receive an MA in English en route to receiving the Ph.D.

7. In consultation with his/her advisor, a student will organize a dissertation Advisory Committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

8. Qualifying Examinations: Superior performance is required on qualifying examinations in the student’s three areas of specialization. These examinations consist of three four-hour written exams: one in the historical period of specialization, one in the genre of specialization, and a third in an additional chronological period, a major author approved by the graduate committee, or a special topic approved by the graduate committee, and a two-hour oral examination. For more information visit the English department’s website here: English Literature Ph.D. Requirements.

9. After passing the Qualifying Examination, and normally in the third or fourth year of the program, the student will begin a doctoral dissertation under the direction of an Advisor and Advisory Committee approved by the Graduate Director of the Department. The Prospectus for this Dissertation must be approved, and the Dissertation written, under the close supervision of the Advisor and Advisory Committee. The doctoral dissertation involves original thought and superior scholarship on a topic or author in English or American literature, or world literature in English.

Graduation Requirements

See Plan Graduate Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation or creative dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Arts - English

Plan Description

The M.A. program involves course work at the graduate level in English and American literature or in language studies with an optional thesis. Work toward this degree is designed to supplement and complete the student’s undergraduate study in the field of English and to familiarize the student with professional standards, methods of research, and modes of thought in the discipline. Possession of this degree normally leads to advancement in the teaching profession for the secondary school or community college teacher; to careers in writing, publishing and editing; or to further study in English at the doctoral level.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Applicants must meet the minimum requirements of the Graduate College, including holding an undergraduate GPA of 2.75 or better from a regionally accredited college or university. In addition, the English department requires a minimum of 21 credits in English courses above the Freshman Composition level.

2. Applicants must submit the following:
   a. Two letters of recommendation, which can be uploaded directly through the online system.
   b. A letter of application to the Graduate Committee that includes a statement of purpose and reasons the applicant wants to study English at the graduate level at the University of Nevada, Las Vegas.
   c. Applicants must send one official set of transcripts from all colleges or universities attended to the Graduate College and one unofficial set directly to the English Department.
d. A minimum of ten pages of critical writing

e. Official scores on the Verbal portion of the General Test and the Literature in English Subject Test of the Graduate Record Examination

3. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Accomplished UNLV undergraduates may apply for an Advanced Program Track after completion of 75 credit hours. Students admitted to the program must complete 6 credits of graduate-level work in their senior year with a B or better and must satisfy all of the requirements for the BA in English in order to advance to graduate status. Students must meet all of the following criteria to be eligible for the Advanced Program Track:

1. Minimum of 3.5 GPA in English courses
2. Department chair or graduate coordinator’s recommendation
3. Submission of two letters of recommendation and a completed Enrollment Request form to the English department no less than two weeks before the beginning of the semester for which they would like to register for graduate courses

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 2: Literature Emphasis Track - Non-Thesis

Subplan 5: Advanced Track - Thesis
Subplan 6: Advanced Track - Non-Thesis

Subplan 1 Requirements: Literature Emphasis Track – Thesis

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 3

- ENG 700 - Bibliography and Methods

Literature Courses in Periods before 1800 – Credits: 9

Complete three of the following courses:

- ENG 632A - Chaucer
- ENG 634A - Shakespeare: Tragedies
- ENG 634B - Shakespeare: Comedies and Histories
- ENG 635A - Milton
- ENG 640A - Medieval English Literature

- ENG 640B - Gender and Early Literature
- ENG 641A - The Renaissance
- ENG 641B - Gender and Renaissance Literature
- ENG 642A - The Seventeenth Century
- ENG 643A - Restoration and Augustan Literature
- ENG 643C - Later Eighteenth Century
- ENG 652A - American Literature, 1620-1800
- ENG 660A - Heroic Epic
- ENG 663A - Classical Drama in Translation
- ENG 664A - English Drama to 1642
- ENG 665B - Restoration and Eighteenth-Century Drama
- ENG 670A - The British Novel I
- ENG 673A - The Early American Novel
- ENG 695A - Early African American Literature
- ENG 720 - Studies in Medieval Literature
- ENG 722 - Studies in Chaucer
- ENG 723 - Studies in the Renaissance
- ENG 724 - Studies in Early Seventeenth-Century Literature
- ENG 725 - Studies in Shakespeare
- ENG 728 - Studies in Milton
- ENG 731 - Studies in Restoration and Eighteenth-Century British Literature

Literature Courses in Periods after 1800 – Credits: 9

Complete three of the following courses:

- ENG 644B - The Romantic Poets
- ENG 645B - Victorian Poetry
- ENG 645C - Nineteenth-Century Prose Writers
- ENG 646A - Modern British Literature
- ENG 652B - American Literature, 1800-1865
- ENG 653A - American Literature, 1865-1918
- ENG 653B - American Literature, 1918-Present
- ENG 654B - Gender and Modern American Literature
- ENG 662A - Modern British Poetry
- ENG 662C - Modern American Poetry
- ENG 666A - Nineteenth-Century Drama
- ENG 667A - Modern British Drama
- ENG 667B - Modern American Drama
- ENG 670B - The British Novel II
- ENG 671A - Modern English Novel
- ENG 671B - Contemporary English Novel
ENG 673B - The Modern American Novel
ENG 673C - The Contemporary American Novel
ENG 677A - Film and Literature
ENG 694A - Native American Literature
ENG 695B - Modern African American Literature
ENG 696C - Contemporary Latino/a Literature
ENG 734 - Studies in English Romanticism
ENG 735 - Studies in Victorian Literature
ENG 738 - Studies in Modern British Literature
ENG 742 - Studies in Early American Literature
ENG 743 - Studies in Later American Literature
ENG 744 - Studies in Modern American Literature
ENG 787 - Studies in Modern Comparative Literature

Elective Courses – Credits: 3
Students completing the Master’s thesis must complete 3 credits of elective coursework. Elective credits may be in any period or area.

ENG 632A - Chaucer
ENG 634A - Shakespeare: Tragedies
ENG 634B - Shakespeare: Comedies and Histories
ENG 635A - Milton
ENG 640A - Medieval English Literature
ENG 640B - Gender and Early Literature
ENG 641A - The Renaissance
ENG 641B - Gender and Renaissance Literature
ENG 642A - The Seventeenth Century
ENG 643A - Restoration and Augustan Literature
ENG 643C - Later Eighteenth Century
ENG 644B - The Romantic Poets
ENG 645B - Victorian Poetry
ENG 645C - Nineteenth-Century Prose Writers
ENG 646A - Modern British Literature
ENG 652B - American Literature, 1800-1865
ENG 653A - American Literature, 1865-1918
ENG 653B - American Literature, 1918-Present
ENG 654B - Gender and Modern American Literature
ENG 660A - Heroic Epic
ENG 662A - Modern British Poetry
ENG 662C - Modern American Poetry
ENG 663A - Classical Drama in Translation
ENG 664A - English Drama to 1642

ENG 665B - Restoration and Eighteenth-Century Drama
ENG 666A - Nineteenth-Century Drama
ENG 667A - Modern British Drama
ENG 667B - Modern American Drama
ENG 670A - The British Novel I
ENG 670B - The British Novel II
ENG 671A - Modern English Novel
ENG 671B - Contemporary English Novel
ENG 673A - The Early American Novel
ENG 673B - The Modern American Novel
ENG 673C - The Contemporary American Novel
ENG 677A - Film and Literature
ENG 687A - Film and Literature
ENG 694A - Native American Literature
ENG 695A - Early African American Literature
ENG 695B - Modern African American Literature
ENG 696C - Contemporary Latino/a Literature
ENG 720 - Studies in Medieval Literature
ENG 722 - Studies in Chaucer
ENG 723 - Studies in the Renaissance
ENG 724 - Studies in Early Seventeenth-Century Literature
ENG 725 - Studies in Shakespeare
ENG 728 - Studies in Milton
ENG 731 - Studies in Restoration and Eighteenth-Century British Literature
ENG 734 - Studies in English Romanticism
ENG 735 - Studies in Victorian Literature
ENG 738 - Studies in Modern British Literature
ENG 742 - Studies in Early American Literature
ENG 743 - Studies in Later American Literature
ENG 744 - Studies in Modern American Literature
ENG 760 - Studies in Literary Genres
ENG 775 - Studies in Literary Criticism
ENG 795 - Seminar
ENG 787 - Studies in Modern Comparative Literature
ENG 791 - College Teaching in Language and Literature

Thesis – Credits: 6
ENG 797 - Thesis
Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Literature Emphasis Track – Non-Thesis
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 3
• ENG 700 - Bibliography and Methods

Literature Courses in Periods before 1800 – Credits: 9
Complete three of the following courses:
• ENG 632A - Chaucer
• ENG 634A - Shakespeare: Tragedies
• ENG 634B - Shakespeare: Comedies and Histories
• ENG 635A - Milton
• ENG 640A - Medieval English Literature
• ENG 641A - The Renaissance
• ENG 641B - Gender and Renaissance Literature
• ENG 642A - The Seventeenth Century
• ENG 643A - Restoration and Augustan Literature
• ENG 643C - Later Eighteenth Century
• ENG 652A - American Literature, 1620-1800
• ENG 660A - Heroic Epic
• ENG 663A - Classical Drama in Translation
• ENG 664A - English Drama to 1642
• ENG 665B - Restoration and Eighteenth-Century Drama
• ENG 670A - The British Novel I
• ENG 673A - The Early American Novel
• ENG 695A - Early African American Literature
• ENG 720 - Studies in Medieval Literature
• ENG 722 - Studies in Chaucer
• ENG 723 - Studies in the Renaissance
• ENG 724 - Studies in Early Seventeenth-Century Literature
• ENG 725 - Studies in Shakespeare
• ENG 728 - Studies in Milton
• ENG 731 - Studies in Restoration and Eighteenth-Century British Literature

Literature Courses in Periods after 1800 – Credits: 9
Complete three of the following courses:
• ENG 644B - The Romantic Poets
• ENG 645B - Victorian Poetry
• ENG 645C - Nineteenth-Century Prose Writers
• ENG 646A - Modern British Literature
• ENG 652B - American Literature, 1800-1865
• ENG 653A - American Literature, 1865-1918
• ENG 653B - American Literature, 1918-Present
• ENG 654B - Gender and Modern American Literature
• ENG 662A - Modern British Poetry
• ENG 662C - Modern American Poetry
• ENG 666A - Nineteenth-Century Drama
• ENG 667A - Modern British Drama
• ENG 667B - Modern American Drama
• ENG 670B - The British Novel II
• ENG 671A - Modern English Novel
• ENG 671B - Contemporary English Novel
• ENG 673B - The Modern American Novel
• ENG 673C - The Contemporary American Novel
• ENG 677A - Film and Literature
• ENG 694A - Native American Literature
• ENG 695B - Modern African American Literature
• ENG 696C - Contemporary Latino/a Literature
• ENG 734 - Studies in English Romanticism
• ENG 735 - Studies in Victorian Literature
• ENG 738 - Studies in Modern British Literature
• ENG 742 - Studies in Early American Literature
• ENG 743 - Studies in Later American Literature
• ENG 744 - Studies in Modern American Literature
• ENG 787 - Studies in Modern Comparative Literature

Elective Courses – Credits: 9
Students who choose not to complete a thesis must complete 9 credits of elective coursework. Elective credits may be in any period or area.
• ENG 632A - Chaucer
• ENG 634A - Shakespeare: Tragedies
• ENG 634B - Shakespeare: Comedies and Histories
• ENG 635A - Milton
• ENG 640A - Medieval English Literature
• ENG 640B - Gender and Early Literature
• ENG 641A - The Renaissance
• ENG 641B - Gender and Renaissance Literature
• ENG 642A - The Seventeenth Century
• ENG 643A - Restoration and Augustan Literature
• ENG 643C - Later Eighteenth Century
• ENG 644B - The Romantic Poets
• ENG 645B - Victorian Poetry
• ENG 645C - Nineteenth-Century Prose Writers
• ENG 646A - Modern British Literature
• ENG 652A - American Literature, 1620-1800
• ENG 652B - American Literature, 1800-1865
• ENG 653A - American Literature, 1865-1918
• ENG 653B - American Literature, 1918-Present
• ENG 654A - Gender and Modern American Literature
• ENG 660A - Heroic Epic
• ENG 662A - Modern British Poetry
• ENG 662C - Modern American Poetry
• ENG 663A - Classical Drama in Translation
• ENG 664A - English Drama to 1642
• ENG 665B - Restoration and Eighteenth-Century Drama
• ENG 666A - Nineteenth-Century Drama
• ENG 667A - Modern British Drama
• ENG 667B - Modern American Drama
• ENG 670A - The British Novel I
• ENG 670B - The British Novel II
• ENG 671A - Modern English Novel
• ENG 671B - Contemporary English Novel
• ENG 673A - The Early American Novel
• ENG 673B - The Modern American Novel
• ENG 673C - The Contemporary American Novel
• ENG 677A - Film and Literature
• ENG 694A - Native American Literature
• ENG 695A - Early African American Literature
• ENG 695B - Modern African American Literature
• ENG 696C - Contemporary Latino/a Literature
• ENG 720 - Studies in Medieval Literature
• ENG 722 - Studies in Chaucer
• ENG 723 - Studies in the Renaissance
• ENG 724 - Studies in Early Seventeenth-Century Literature
• ENG 725 - Studies in Shakespeare
• ENG 728 - Studies in Milton
• ENG 731 - Studies in Restoration and Eighteenth-Century British Literature
• ENG 734 - Studies in English Romanticism
• ENG 735 - Studies in Victorian Literature
• ENG 738 - Studies in Modern British Literature
• ENG 742 - Studies in Early American Literature
• ENG 743 - Studies in Later American Literature
• ENG 744 - Studies in Modern American Literature
• ENG 760 - Studies in Literary Genres
• ENG 775 - Studies in Literary Criticism
• ENG 787 - Studies in Modern Comparative Literature
• ENG 791 - College Teaching in Language and Literature
• ENG 795 - Seminar

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Language/Composition Theory Track – Thesis
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 3
Complete one of the following courses:
• ENG 700 - Bibliography and Methods
• ENG 704 - Theory and Practice of Textual Editing

Language/Composition Courses – Credits: 12
Complete four of the following courses:
• ENG 611A - Advanced Linguistics
• ENG 611B - Principles of Modern Grammar
• ENG 612C - Seminar in Modern and Cognitive
• ENG 614B - Development of American English
• ENG 701 - Contemporary Composition Theory
• ENG 702 - History of Rhetoric and Composition
• ENG 711 - Studies in Language
• ENG 712 - Studies in Modern Grammar
• ENG 719 - Area Linguistics
• ENG 791 - College Teaching in Language and Literature
• ENG 792 - Directed Studies in Language
Literature Courses in any Period – Credits: 9
Complete three of the following courses:

- ENG 632A - Chaucer
- ENG 634A - Shakespeare: Tragedies
- ENG 634B - Shakespeare: Comedies and Histories
- ENG 635A - Milton
- ENG 640A - Medieval English Literature
- ENG 640B - Gender and Early Literature
- ENG 641A - The Renaissance
- ENG 641B - Gender and Renaissance Literature
- ENG 642A - The Seventeenth Century
- ENG 643A - Restoration and Augustan Literature
- ENG 643C - Later Eighteenth Century
- ENG 644B - The Romantic Poets
- ENG 645B - Victorian Poetry
- ENG 645C - Nineteenth-Century Prose Writers
- ENG 646A - Modern British Literature
- ENG 652A - American Literature, 1620-1800
- ENG 652B - American Literature, 1800-1865
- ENG 653A - American Literature, 1865-1918
- ENG 653B - American Literature, 1918-Present
- ENG 654B - Gender and Modern American Literature
- ENG 660A - Heroic Epic
- ENG 662A - Modern British Poetry
- ENG 662C - Modern American Poetry
- ENG 663A - Classical Drama in Translation
- ENG 664A - English Drama to 1642
- ENG 665B - Restoration and Eighteenth-Century Drama
- ENG 666A - Nineteenth-Century Drama
- ENG 667A - Modern British Drama
- ENG 667B - Modern American Drama
- ENG 670A - The British Novel I
- ENG 670B - The British Novel II
- ENG 671A - Modern English Novel
- ENG 671B - Contemporary English Novel
- ENG 673A - The Early American Novel
- ENG 673B - The Modern American Novel
- ENG 673C - The Contemporary American Novel
- ENG 677A - Film and Literature
- ENG 694A - Native American Literature
- ENG 695A - Early African American Literature
- ENG 695B - Modern African American Literature
- ENG 696C - Contemporary Latino/a Literature
- ENG 720 - Studies in Medieval Literature
- ENG 722 - Studies in Chaucer
- ENG 723 - Studies in the Renaissance
- ENG 724 - Studies in Early Seventeenth-Century Literature
- ENG 725 - Studies in Shakespeare
- ENG 728 - Studies in Milton
- ENG 731 - Studies in Restoration and Eighteenth-Century British Literature
- ENG 734 - Studies in English Romanticism
- ENG 735 - Studies in Victorian Literature
- ENG 738 - Studies in Modern British Literature
- ENG 742 - Studies in Early American Literature
- ENG 743 - Studies in Later American Literature
- ENG 744 - Studies in Modern American Literature
- ENG 760 - Studies in Literary Genres
- ENG 775 - Studies in Literary Criticism
- ENG 787 - Studies in Modern Comparative Literature
- ENG 795 - Seminar

Thesis – Credits: 6

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Language/Composition Theory Track – Non-Thesis
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 3
Complete one of the following courses:

- ENG 700 - Bibliography and Methods
- ENG 704 - Theory and Practice of Textual Editing

Language/Composition Courses – Credits: 12
Complete four of the following courses:

- ENG 611A - Advanced Linguistics
- ENG 611B - Principles of Modern Grammar
- ENG 612C - Seminar in Language and Cognition
• ENG 614B - Development of American English
• ENG 701 - Contemporary Composition Theory
• ENG 702 - History of Rhetoric and Composition
• ENG 711 - Studies in Language
• ENG 712 - Studies in Modern Grammar
• ENG 719 - Area Linguistics
• ENG 791 - College Teaching in Language and Literature
• ENG 792 - Directed Studies in Language

Literature Courses in any Period – Credits: 9
Complete three of the following courses:
• ENG 632A - Chaucer
• ENG 634A - Shakespeare: Tragedies
• ENG 634B - Shakespeare: Comedies and Histories
• ENG 635A - Milton
• ENG 640A - Medieval English Literature
• ENG 640B - Gender and Early Literature
• ENG 641A - The Renaissance
• ENG 641B - Gender and Renaissance Literature
• ENG 642A - The Seventeenth Century
• ENG 643A - Restoration and Augustan Literature
• ENG 643C - Later Eighteenth Century
• ENG 644B - The Romantic Poets
• ENG 645B - Victorian Poetry
• ENG 645C - Nineteenth-Century Prose Writers
• ENG 646A - Modern British Literature
• ENG 652A - American Literature, 1620-1800
• ENG 652B - American Literature, 1800-1865
• ENG 653A - American Literature, 1865-1918
• ENG 653B - American Literature, 1918-Present
• ENG 654B - Gender and Modern American Literature
• ENG 660A - Heroic Epic
• ENG 662A - Modern British Poetry
• ENG 662C - Modern American Poetry
• ENG 663A - Classical Drama in Translation
• ENG 664A - English Drama to 1642
• ENG 665B - Restoration and Eighteenth-Century Drama
• ENG 666A - Nineteenth-Century Drama
• ENG 667A - Modern British Drama
• ENG 667B - Modern American Drama
• ENG 670A - The British Novel I

• ENG 670B - The British Novel II
• ENG 671A - Modern English Novel
• ENG 673A - The Early American Novel
• ENG 673B - The Modern American Novel
• ENG 673C - The Contemporary American Novel
• ENG 677A - Film and Literature
• ENG 694A - Native American Literature
• ENG 695A - Early African American Literature
• ENG 695B - Modern African American Literature
• ENG 696C - Contemporary Latino/a Literature
• ENG 720 - Studies in Medieval Literature
• ENG 722 - Studies in Chaucer
• ENG 723 - Studies in the Renaissance
• ENG 724 - Studies in Early Seventeenth-Century Literature
• ENG 725 - Studies in Shakespeare
• ENG 728 - Studies in Milton
• ENG 731 - Studies in Restoration and Eighteenth-Century British Literature
• ENG 734 - Studies in English Romanticism
• ENG 735 - Studies in Victorian Literature
• ENG 738 - Studies in Modern British Literature
• ENG 742 - Studies in Early American Literature
• ENG 743 - Studies in Later American Literature
• ENG 744 - Studies in Modern American Literature
• ENG 760 - Studies in Literary Genres
• ENG 775 - Studies in Literary Criticism
• ENG 787 - Studies in Modern Comparative Literature
• ENG 795 - Seminar

Elective Courses – Credits: 6
Complete two of the following courses:
• ENG 611A - Advanced Linguistics
• ENG 611B - Principles of Modern Grammar
• ENG 612C - Seminar in Language and Cognition
• ENG 614B - Development of American English
• ENG 632A - Chaucer
• ENG 634A - Shakespeare: Tragedies
• ENG 634B - Shakespeare: Comedies and Histories
• ENG 635A - Milton
• ENG 640A - Medieval English Literature
• ENG 640B - Gender and Early Literature
• ENG 641A - The Renaissance
• ENG 641B - Gender and Renaissance Literature
• ENG 642A - The Seventeenth Century
• ENG 643A - Restoration and Augustan Literature
• ENG 643C - Later Eighteenth Century
• ENG 644B - The Romantic Poets
• ENG 645B - Victorian Poetry
• ENG 645C - Nineteenth-Century Prose Writers
• ENG 646A - Modern British Literature
• ENG 652A - American Literature, 1620-1800
• ENG 652B - American Literature, 1800-1865
• ENG 653A - American Literature, 1865-1918
• ENG 653B - American Literature, 1918-Present
• ENG 654B - Gender and Modern American Literature
• ENG 660A - Heroic Epic
• ENG 662A - Modern British Poetry
• ENG 662C - Modern American Poetry
• ENG 663A - Classical Drama in Translation
• ENG 664A - English Drama to 1642
• ENG 665B - Restoration and Eighteenth-Century Drama
• ENG 666A - Nineteenth-Century Drama
• ENG 667A - Modern British Drama
• ENG 667B - Modern American Drama
• ENG 670A - The British Novel I
• ENG 670B - The British Novel II
• ENG 671A - Modern English Novel
• ENG 671B - Contemporary English Novel
• ENG 673A - The Early American Novel
• ENG 673B - The Modern American Novel
• ENG 673C - The Contemporary American Novel
• ENG 677A - Film and Literature
• ENG 694A - Native American Literature
• ENG 695A - Early African American Literature
• ENG 695B - Modern African American Literature
• ENG 696C - Contemporary Latino/a Literature
• ENG 701 - Contemporary Composition Theory
• ENG 702 - History of Rhetoric and Composition
• ENG 711 - Studies in Language
• ENG 712 - Studies in Modern Grammar
• ENG 719 - Area Linguistics

• ENG 720 - Studies in Medieval Literature
• ENG 722 - Studies in Chaucer
• ENG 723 - Studies in the Renaissance
• ENG 724 - Studies in Early Seventeenth-Century Literature
• ENG 725 - Studies in Shakespeare
• ENG 728 - Studies in Milton
• ENG 731 - Studies in Restoration and Eighteenth-Century British Literature
• ENG 734 - Studies in English Romanticism
• ENG 735 - Studies in Victorian Literature
• ENG 738 - Studies in Modern British Literature
• ENG 742 - Studies in Early American Literature
• ENG 743 - Studies in Later American Literature
• ENG 744 - Studies in Modern American Literature
• ENG 760 - Studies in Literary Genres
• ENG 775 - Studies in Literary Criticism
• ENG 787 - Studies in Modern Comparative Literature
• ENG 792 - Directed Studies in Language
• ENG 795 - Seminar

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Advanced Track - Thesis
Total Credits Required: 24

Course Requirements

Required Courses – Credits: 3
• ENG 700 - Bibliography and Methods

Elective Courses – Credits: 15

Thesis - Credits: 6
• ENG 797 - Thesis

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Advanced Track - Non-Thesis
Total Credits Required: 24

Course Requirements
Required Courses – Credits: 3
   • ENG 700 - Bibliography and Methods

Elective Courses – Credits: 21

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduate Requirements below.

Plan Degree Requirements

1. No more than a total of 6 credit hours may be selected from 600-level courses.

2. A comprehensive examination is required of each M.A. student, who will choose either a three-hour written exam or a sixty- to ninety-minute oral exam and prepare a reading list for the examination with the supervision and approval of the advisor and the examination committee. The reading list will comprise at least twenty authors, and the selections should recognize diversity of genre, gender, culture, and period. At least seventeen of those authors should be chosen from the master reading list on the English Department website. Three other authors not on the master list may be added. If taken during the semester of graduation, the exam must be scheduled no later than three weeks before the end of classes. The Graduate College designates deadline dates for each semester. See graduatecollege.unlv.edu.

3. Students must demonstrate competency in the reading of one foreign language. This requirement may be satisfied by earning a B or better in WLC 198 or by passing a translation examination (with aid of a dictionary if desired) administered and evaluated by the English Department.

4. A master’s thesis, which carries six credits, is optional (although recommended) for the literary study emphasis and optional for the language studies emphasis. It is normally written during two consecutive semesters and must conform to the guidelines set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual.
   a. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
   b. The M.A. thesis should be an original contribution to knowledge about a suitable literary or linguistic subject and comprise 40-75 pages. Thesis projects must be designed, developed, and written in close consultation with an appropriate thesis advisor and with the student’s thesis committee.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully pass the comprehensive exam and submit the Final Exam Results by the posted deadline.

3. If a thesis is completed, the student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

4. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Fine Arts - Creative Writing

Plan Description

The MFA international program at UNLV enables writers to begin recognizing themselves and their art in relation to a larger understanding of writing in the world. The program’s commitment to world literature provides a unique MFA experience that differs from many traditional creative writing programs. Admitted students follow three-year plans of study that includes literature and writing courses, time abroad, completion of a book-length manuscript of poetry, fiction or literary nonfiction, and a literary translation. In addition, the MFA program at UNLV is the nation’s only creative writing program that gives credit to students who wish to spend their time abroad in the Peace Corps. The program’s international emphasis is derived from the belief that the best writing is done by individuals who know that literature is something created from more than mere self-expression, and that great books are written by the few who know their gift is connected to the world they live in and who strive to create dialogue between private imagination and public concern. Graduates of UNLV’s MFA program have gone on to publish books, secure tenure track teaching jobs, gain admission to Ph.D. programs, and enter the workforce as editors, writers, and arts administrators. UNLV also routinely supports recent graduates with part-time teaching opportunities in the department.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.
Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission & Registration Requirements.

2. Applicants for the M.F.A. in Creative Writing must submit the following to the English department:
   a. A strong manuscript of either poetry, fiction or literary nonfiction for the admissions selection process of approximately 10-15 pages for poetry and 20-30 pages for fiction and literary nonfiction. The primary consideration for admission is the quality of the manuscript as judged by the Creative Writing faculty.
   b. A letter of application to the Graduate Committee that includes a statement of purpose and reasons the applicant wants to study creative writing at the University of Nevada, Las Vegas.
   c. Applicants must send one official set of transcripts from all colleges or universities attended to the Graduate College and one unofficial set directly to the English Department.
   d. Two letters of recommendation to be sent directly to the department. There is a wide range of acceptability with regard to an applicant's previous record of studies and major field of specialization as an undergraduate.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: International Focus Track

Total Credits Required: 54

Course Requirements

Creative Writing Course – Credits: 12
Complete 9 credits in the chosen genre of concentration (either poetry, fiction or literary nonfiction) and 3 credits in another genre.
   • ENG 705 - Creative Writing Workshop

Required Courses – Credits: 6
   • ENG 739 - M.F.A. Translation
   • ENG 791 - College Teaching in Language and Literature

Forms of Fiction, Poetry, or Literary Nonfiction Course – Credits: 9
Complete 6 credits in the chosen genre of concentration and 3 credits in another genre.
   • ENG 729 - Forms of Fiction, Literary Nonfiction, or Poetry

Elective Courses – Credits: 9
Complete 9 credits of graduate literature courses not offered by the creative writing faculty of the Department of English.

Independent Study – Credits: 6
   • ENG 794 - Independent Study - International Focus

Thesis – Credits: 12
   • ENG 790 - M.F.A. Thesis

Degree Requirements

1. Independent Study: International Focus
   1. 3 credits for the completion of a significant translation of superior quality from a language other than English and 3 credits for the writing of a substantial scholarly essay of at least 5,000 words on some aspect of a major world writer or field of literary study.
   2. The strong international emphasis of the M.F.A. in Creative Writing requires all students to spend at least one semester or summer abroad in a non-English speaking country and to earn at least six credits toward the M.F.A. by enrolling in a university, school, or institute abroad and/or by Independent Study guided and monitored by a member of the Creative Writing faculty. For applicants with strong experience and demonstrable study and residency in a non-English speaking country and with significant foreign language skills, the study abroad requirement may be waived at the discretion of the Creative Writing faculty and of the Graduate College. The six required credits must then be earned in some other way, usually by taking additional 700-level Literature classes or 700-level classes in other disciplines, or a combination of these and 700-level Independent Study or additional Graduate Workshops.

2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department's discretion. Please see Graduate College policy for committee appointment guidelines.

3. All candidates for the M.F.A. degree are required to write a creative thesis in either poetry, literary
nonfiction, or fiction, and to complete at least 12 credits toward the creative thesis requirement by intensive work in conference with members of the faculty. The creative thesis for the M.F.A. will be a book-length manuscript and must conform to the guidelines set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual. The M.F.A. creative thesis will only be passed and the M.F.A. degree granted when the creative thesis is judged to be a substantial creative work of high seriousness and literary merit in the opinion of the Creative Writing faculty and the student’s creative thesis committee.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. Student must submit his/her approved, properly formatted document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 2 Requirements: Peace Corps Track

Total Credits Required: 42

Course Requirements

Creative Writing Course – Credits: 12

Complete 9 credits in the chosen genre of concentration (either poetry, fiction, or literary nonfiction) and 3 credits in another genre.

- ENG 705 - Creative Writing Workshop

Required Courses – Credits: 6

- ENG 739 - M.F.A. Translation
- ENG 791 - College Teaching in Language and Literature

Forms of Fiction or Poetry Course – Credits: 9

- ENG 729 - Forms of Fiction, Literary Nonfiction, or Poetry

Elective Courses – Credits: 6

Complete 6 credits of graduate literature courses not offered by the creative writing faculty of the Department of English.

Thesis – Credits: 9

- ENG 790 - M.F.A. Thesis

Degree Requirements

1. Through the Peace Corps Master’s International Partnership, students must apply to the Peace Corps during their first or second year in the program.

2. The entire program is a four-year obligation. Students complete their course work in two years instead of the usually required three, and write a thesis during their two-year Peace Corps assignment.

3. Students receive an MFA when they complete their Peace Corps assignment, receive a resettlement allowance, and then complete and defend the MFA thesis.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. All candidates for the M.F.A. degree are required to write a creative thesis in either poetry, literary nonfiction or fiction, and to complete at least 12 credits toward the creative thesis requirement by intensive work in conference with members of the faculty. The creative thesis for the M.F.A. will be a book-length manuscript and must conform to the guidelines set forth by the Graduate College in this catalog and in its Thesis and Dissertation Manual. The M.F.A. creative thesis will only be passed and the M.F.A. degree granted when the creative thesis is judged to be a substantial creative work of high seriousness and literary merit in the opinion of the Creative Writing faculty and the student’s creative thesis committee.

Graduation Requirements

1. The student must submit all required forms to the Graduate College.

2. Upon return from the Peace Corps, students must:

   1. Have faculty submit a grade change form for any X grades
   2. Apply for graduation and pay the fee
   3. If the student cannot graduate in the semester in which he or she returns, he or she must enroll in 6 graduate credits in the next semester

3. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

4. Student must submit his/her approved, properly formatted document to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements
ENG 601A - Advanced Composition Credits 3
Explores writing and literacy. Students will develop greater awareness of themselves as strategic writers by studying and creating texts for different audiences, purposes and contexts in a variety of styles and genres.

ENG 602A - Advanced Creative Writing II Credits 3
Advanced workshop designed to hone students' skills in writing fiction or poetry. Notes: This course is crosslisted with ENG 402A. Credit at the 600-level requires additional work.

ENG 605C - Writing For Publication Credits 3
Intensive study of the business of writing, designed to serve the needs of the freelance writer. Includes discussion of literary markets and popular literary genres. Notes: This course is crosslisted with ENG 405C. Credit at the 600-level requires additional work.

ENG 607B - Fundamentals of Technical Writing Credits 3
Examines the rhetorical principles and composing practices necessary for writing effective technical documents and the role of writing in technical and industrial settings.

ENG 608A - Tutorial Techniques in English Credits 3
This undergraduate course, when taught by a member of the graduate faculty, may be used toward graduate degrees with the permission of advisor (maximum: six credits). A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

ENG 609A - Visual Rhetoric
Study of the persuasive and aesthetic effects that visual elements have on readers/users in print and online documents. Visual elements include typography, graphics, images, color, paper or screen textures, alignment, and multimedia. Notes: This course is crosslisted with ENG 409A. Credit at the 600-level requires additional work.

ENG 609B - Rhetoric and the Environment
Studies discourse about environmental topics using classical and contemporary rhetorical theory. The focus is on non-fiction prose and specialized genres including websites and technical documents. Students will learn a theoretical framework to analyze environmental discourse, and also gain practice in producing works of environmental rhetoric. Notes: This course is crosslisted with ENG 409B. Credit at the 600-level requires additional work.

ENG 611A - Advanced Linguistics Credits 3
Applies the principles of linguistics to the analysis of English poetry and prose. Notes: This course is crosslisted with ENG 411A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 611B - Principles of Modern Grammar Credits 3
Surveys the structure of contemporary English grammar. Examines the workings of the English language from a linguistic perspective, concentrating primarily on sentence structure. Notes: This course is crosslisted with ENG 411B. Credit at the 600-level requires additional work.

ENG 612C - Seminar in Language and Cognition Credits 3
This undergraduate course, when taught by a member of the graduate faculty, may be used toward graduate degrees with the permission of advisor (maximum: six credits). A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

ENG 614A - History of the English Language Credits 3
History and development of the English language from its beginnings. Notes: This course is crosslisted with ENG 414A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 614B - Development of American English Credits 3
Introduction to the history of the English language in America and to the regional and social varieties of English which have resulted from this development. Includes survey of distinctively American vocabulary, pronunciation, spelling, and syntax. Formerly: ENG 614 Notes: This course is crosslisted with ENG 414B. Credit at the 600-level requires additional work.

ENG 614C - Old English II Credits 3
Continuation of the study of Old English through the reading of more complex literary texts such as Beowulf, the poems of the Exeter Book, the writings of Aelfric, etc. Notes: This course is crosslisted with ENG 414C. Credit at the 600-level requires additional work.

ENG 615B - Old English I Credits 3
Study of the language and literature of England in the Anglo-Saxon period. After a review of the grammar, students will read basic prose and poetry in Old English. English majors may substitute this course for one semester of foreign language. Formerly: ENG 615B Notes: This course is crosslisted with ENG 415B. Credit at 600-level requires additional work.

ENG 616A - Special Problems in English
This undergraduate course, when taught by a member of the graduate faculty, may be used toward graduate degrees with the permission of advisor (maximum: six credits). A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

ENG 616C - Special Problems in English Credits 1-6
Workshops in language and literature. May be repeated. Notes: This course is crosslisted with ENG 416C. Credit at the 600-level requires additional work.

ENG 622A - Topics in Literary Theory Credits 3
Selected topics and issues in literary and cultural theory. Notes: This course is crosslisted with ENG 422A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 625A - Themes of Literature Credits 3
Study of themes, ideas, or literary attitudes significant in literary history. Notes: This course is crosslisted with ENG 425A. Credit at the 600-level requires additional work. May be repeated to a maximum of nine credits.

ENG 626A - Religion and Literature Credits 3
Insights and relationships of religious themes, beliefs, and assumptions as they may bear upon the analysis of literary texts. Notes: This course is crosslisted with ENG 426A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits. Prerequisites: Graduate standing

ENG 626B - Mythology Credits 3
Study of mythologies, such as Greek, Roman, and Native American, in cultural context. Notes: This course is crosslisted with ENG 426B. Credit at the 600-level requires additional work.

ENG 627B - Gender and Literature Credits 3
Study of gender and literature through the ages. Focus may be aesthetic, historical, or thematic. Topics may vary. Same as: WMST 427B Notes: This course is crosslisted with ENG 427B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 629A - Early American Humor Credits 3
Investigation of the writings of American humorists from the eighteenth century through Mark Twain. Examines works by anonymous writers as well as humorists of New England, the Old Southwest, and the Far West. Notes: This course is crosslisted with ENG 429A. Credit at the 600-level requires additional work.

ENG 629B - Modern American Humor Credits 3
Investigation of the writings of American humorists from the mid-nineteenth century to the present, including the works of Mark Twain, James Thurber, Dorothy Parker, Woody Allen, and Tom Robbins. Notes: This course is crosslisted with ENG 429B. Credit at the 600-level requires additional work.
ENG 629C - Literature of the American West Credits 3
Study of literature of the American West. Notes: This course is crosslisted with ENG 429C. Credit at the 600-level requires additional work.

ENG 630A - Major Figures in British Literature Credits 3
Seminar on one or more major figures in English literature. Notes: This course is crosslisted with ENG 340A. Credit at the 600-level requires additional work.

ENG 632A - Chaucer Credits 3
Study of the works of Geoffrey Chaucer, with emphasis on the Canterbury Tales. Notes: This course is crosslisted with ENG 432A. Credit at the 600-level requires additional work.

ENG 634A - Shakespeare: Tragedies Credits 3
Intensive study of Shakespeare's major tragedies. Notes: This course is crosslisted with ENG 434A. Credit at the 600-level requires additional work.

ENG 634B - Shakespeare: Comedies and Histories Credits 3
Intensive study of Shakespeare’s major comedies and histories. Notes: This course is crosslisted with ENG 434B. Credit at the 600-level requires additional work.

ENG 635A - Milton Credits 3
Intensive study of Milton’s poetry and selected prose. Notes: This course is crosslisted with ENG 435A. Credit at the 600-level requires additional work.

ENG 636A - Major Figures in American Literature Credits 3
Seminar on one or more major figures in American literature. Notes: This course is crosslisted with ENG 436A. Credit at the 600-level requires additional work.

ENG 640A - Medieval English Literature Credits 3
Study of the literature written in England from the sixth through the fifteenth century. Topics may include dream visions, romance, heroic poetry, saints’ lives, etc. Notes: This course is crosslisted with ENG 440A. Credit at the 600-level requires additional work.

ENG 640B - Gender and Early Literature Credits 3
Study of gender, sexuality, and literature from the beginning to the Early Modern period. Topics may vary. Notes: This course is crosslisted with ENG 440B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 641A - The Renaissance Credits 3
Study of English literature of the sixteenth century, primarily Elizabethan.

ENG 641B - Gender and Renaissance Literature Credits 3
Study of gender and literature in the Renaissance. Notes: This course is crosslisted with ENG 441B. Credit at the 600-level requires additional work.

ENG 642A - The Seventeenth Century Credits 3
Study of English literature from 1603 to 1660.

ENG 643A - Restoration and Augustan Literature Credits 3
Study of British literature from 1660 to 1740. Topics may include the genres of neoclassical drama and mock-epic, satire from Dryden through the Scriblerians, the periodical essay, and the birth of aesthetics.

ENG 643C - Later Eighteenth Century Credits 3
Study of eighteenth-century British literature after 1740. Topics may include the growth in female authorship, the Johnson circle, and cultural contexts such as feminism and nationalism. Notes: This course is crosslisted with ENG 443C. Credit at the 600-level requires additional work.

ENG 644B - The Romantic Poets Credits 3
Major poets in the Romantic Movement. Notes: This course is crosslisted with ENG 444B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 645B - Victorian Poetry Credits 3
Poetry of the middle and later nineteenth century. Notes: This course is crosslisted with ENG 445B. Credit at the 600-level requires additional work.

ENG 645C - Nineteenth-Century Prose Writers Credits 3
Major prose writers of the Romantic and Victorian periods and their intellectual and literary milieu. Notes: This course is crosslisted with ENG 445C. Credit at the 600-level requires additional work.

ENG 646A - Modern British Literature Credits 3
Study of British writing since 1900, including fiction, drama, and poetry. Notes: This course is crosslisted with ENG 446A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 646B - Gender and Modern British Literature Credits 3
Study of gender and literature in the British tradition. Topics may vary. Same as: WMST 446B Notes: This course is crosslisted with ENG 446B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 652A - American Literature, 1600-1800 Credits 3
Study of American writing through 1800. Notes: This course is crosslisted with ENG 452A. Credit at the 600-level requires additional work.

ENG 652B - American Literature, 1800-1865 Credits 3
Study of American literature from 1800 to 1865. Notes: This course is crosslisted with ENG 452B. Credit at the 600-level requires additional work.

ENG 653A - American Literature, 1865-1918 Credits 3
Study of American literature from the Civil War through World War I. Notes: This course is crosslisted with ENG 453A. Credit at the 600-level requires additional work.

ENG 653B - American Literature, 1918-Present Credits 3
Study of American literature from 1918 to the present. Notes: This course is crosslisted with ENG 453B. Credit at the 600-level requires additional work.

ENG 654B - Gender and Modern American Literature Credits 3
Study of gender and literature in the American tradition. Topics may vary. Notes: This course is crosslisted with ENG 454B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 660 - The American Short Story Credits 3
Survey of the short story in America from the beginnings to modern times. Formerly: ENG 674A Notes: This course is crosslisted with ENG 460. Credit at the 600-level requires additional work.

ENG 660A - Heroic Epic Credits 3
Comparative approach to the forms, themes, and manners of performance of the epic and closely related genres. Notes: This course is crosslisted with ENG 460A. Credit at the 600-level requires additional work.

ENG 661A - The Study of Poetry and Poetics Credits 3
Provides the student with the basic tools for the intelligent reading of poetry by extensive reading of poetry by English and American authors. Notes: This course is crosslisted with ENG 461A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

ENG 662A - Modern British Poetry Credits 3
Study of British poetry since 1900. Notes: This course is crosslisted with ENG 462A. Credit at the 600-level requires additional work.

ENG 662C - Modern American Poetry Credits 3
Study of American poetry since 1900. Notes: This course is crosslisted with ENG 462C. Credit at the 600-level requires additional work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 663A</td>
<td>Classical Drama in Translation</td>
<td>3</td>
<td>Study of major Greek and Latin playwrights. Same as: CLA 450 Notes: This course is crosslisted with ENG 463A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 664A</td>
<td>English Drama to 1642</td>
<td>3</td>
<td>Survey of medieval and Renaissance drama to the closing of the theaters. Notes: This course is crosslisted with ENG 464A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 665B</td>
<td>Restoration and Eighteenth-Century Drama</td>
<td>3</td>
<td>Study of English drama from 1660 to 1800. Notes: This course is crosslisted with ENG 465B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 666A</td>
<td>Nineteenth-Century Drama</td>
<td>3</td>
<td>Study of world drama in the nineteenth century. Notes: This course is crosslisted with ENG 466A. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 667A</td>
<td>Modern British Drama</td>
<td>3</td>
<td>Study of British drama from Shaw to the present. Notes: This course is crosslisted with ENG 467A. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 667B</td>
<td>Modern American Drama</td>
<td>3</td>
<td>Study of American drama since 1900. Notes: This course is crosslisted with ENG 467B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 670A</td>
<td>The British Novel I</td>
<td>3</td>
<td>Study of the British novel from its origins to about 1800. Topics may include the rise of the novel from the materials of romance and realism, the formative decade of the 1740s, and the sub genres of Gothic and historical fiction.</td>
</tr>
<tr>
<td>ENG 670B</td>
<td>The British Novel II</td>
<td>3</td>
<td>Study of the British novel from about 1800 to 1914. Topics may include the role of serialization and circulating library and sub genres such as the bildungsroman, the social-problem novel, and imperial Gothic.</td>
</tr>
<tr>
<td>ENG 671A</td>
<td>Modern English Novel</td>
<td>3</td>
<td>British fiction from Conrad to 1945. Notes: This course is crosslisted with ENG 471A. Credit at the 600-level requires additional work. May be repeated to a maximum of 6 credits.</td>
</tr>
<tr>
<td>ENG 671B</td>
<td>Contemporary English Novel</td>
<td>3</td>
<td>British fiction since 1945. Notes: This course is crosslisted with ENG 471B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 673A</td>
<td>The Early American Novel</td>
<td>3</td>
<td>Study of the development of the novel in America to the time of Twain. Notes: This course is crosslisted with ENG 473A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 673B</td>
<td>The Modern American Novel</td>
<td>3</td>
<td>The American novel from Twain through 1945. Notes: This course is crosslisted with ENG 473B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 673C</td>
<td>The Contemporary American Novel</td>
<td>3</td>
<td>The American novel since 1945. Notes: This course is crosslisted with ENG 473C. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 677A</td>
<td>Film and Literature</td>
<td>3</td>
<td>Comparative study of the relations of prose, poetry, and drama to the structure and themes of the cinema, from Dickens to the present.</td>
</tr>
<tr>
<td>ENG 677C</td>
<td>Genres in Film</td>
<td>3</td>
<td>Individual examinations of genre structures and themes, with emphasis on the development and the history of genres. Notes: This course is crosslisted with ENG 477C. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 678C</td>
<td>Special Topics in Folklore</td>
<td>3</td>
<td>This undergraduate course, when taught by a member of the graduate faculty, may be used toward graduate degrees with the permission of advisor (maximum: six credits). A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.</td>
</tr>
<tr>
<td>ENG 684A</td>
<td>The Bible as Literature</td>
<td>3</td>
<td>Study of selected books of the Old and New Testaments as literature in their broader cultural contexts. Notes: This course is crosslisted with ENG 484A. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 685A</td>
<td>Asian Literature</td>
<td>3</td>
<td>Study of modern and contemporary Asian literature, including comparison and contrast with Western literature and culture. Content varies by semester. Notes: This course is crosslisted with ENG 485A. Credit at the 600 level requires additional work.</td>
</tr>
<tr>
<td>ENG 686A</td>
<td>Postcolonial Theory</td>
<td>3</td>
<td>Examines the significance of the Other in ex-colony. Reflects of colonialism, independence, subordination, hybridity, resistance, and ideology. Frantz Fanon, C.L.R. James, Edward Said, Homi Bhabha, Gayatri Spicak, Malcolm X, Stephen Greenblatt, among others, will be considered. Notes: This course is crosslisted with ENG 486A. Credit at the 600-level requires additional work. Prerequisites: Any of the following: ENG 101 and ENG 102.</td>
</tr>
<tr>
<td>ENG 686B</td>
<td>Postcolonial Literature</td>
<td>3</td>
<td>Probes literature from the ex-colony: Africa, the Caribbean, Ireland, India, America, Canada, Australia. V.S. Naipaul, Derek Walcott, Wole Soyinka, Saman Rushdie, Jamaica Kincaid, Toni Morrison, Claude McKay, Maya Angelou, David Dabydeen, Chimua Achebe, among others, will be considered. Notes: This course is crosslisted with ENG 486B. Credit at the 600-level require additional work. Prerequisites: ENG 101 and ENG 102.</td>
</tr>
<tr>
<td>ENG 691B</td>
<td>Environmental Literature</td>
<td>3</td>
<td>Study of environmental literature, both fiction and non-fiction. Notes: This course is crosslisted with ENG 491B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 694A</td>
<td>Native American Literature</td>
<td>3</td>
<td>Literature of Native-American peoples, oral traditions through contemporary works. Notes: This course is crosslisted with ENG 494A. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 695A</td>
<td>Early African American Literature</td>
<td>3</td>
<td>Study of early African American literature, with emphasis upon the historical development of the African American tradition in creative and critical writing. Notes: This course is crosslisted with ENG 495A. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 695B</td>
<td>Modern African American Literature</td>
<td>3</td>
<td>Study of recent and contemporary works of African American literature. Same as: AAS 492 Notes: This course is crosslisted with ENG 495B. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.</td>
</tr>
<tr>
<td>ENG 696A</td>
<td>Early Latino/a Literature</td>
<td>3</td>
<td>Examines prose and poetry by Latino and Latina writers from the colonial era through the end of the nineteenth century in the United States. Notes: This course is crosslisted with ENG 496A. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 696C</td>
<td>Contemporary Latino/a Literature</td>
<td>3</td>
<td>Examines prose and poetry by Latino and Latina writers since 1900 in the United States. Notes: This course is crosslisted with ENG 496C. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>ENG 700</td>
<td>Bibliography and Methods</td>
<td>3</td>
<td>Bibliography, reference tools, introduction to scholarly methods, modern research techniques in language and literature, preparation and presentation of documented investigation. Notes: To be taken in the student’s first year of graduate study.</td>
</tr>
</tbody>
</table>
ENG 701 - Contemporary Composition Theory  Credits 3
Theories that underline contemporary composition as a discipline and a profession, including the practical implications of literacy as it relates to college writing instruction, administration, and practice. Prerequisites: Graduate standing.

ENG 702 - History of Rhetoric and Composition  Credits 3
Survey of ancient, medieval, Renaissance, enlightenment, and twentieth-century texts that establish terminologies and raise issues still vital to the theory and practice of composition and language study today. Prerequisites: Graduate standing.

ENG 703 - Survey of Literary Criticism and Theory  Credits 3
Surveys criticism and theory from Plato to contemporary trends. Provides historical perspective on the toolbox of theoretical approaches to literature vital in literary studies today. Emphasis may vary from year to year. Notes: Required for Ph.D. Students. Prerequisites: Graduate standing.

ENG 704 - Theory and Practice of Textual Editing  Credits 3
Examination of theories of scholarly editing. Topics include: variant and critical editions, textual recension, rationale for copy text, emendation, annotation, and copy editing. Students work on editions in progress, as well as journals sponsored by the department.

ENG 705 - Creative Writing Workshop  Credits 3
Creative Writing Workshop in the chosen genre of concentration: fiction, literary nonfiction or poetry. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Admission to the M.F.A. program or consent of instructor.

ENG 706 - Gender and Interpretation  Credits 3
Study of gender as a category of analysis within the discipline of English studies.

ENG 711 - Studies in Language  Credits 3
Introduction to advanced study of language based on sequence of problems involving such procedures as the history of language, etymology, structural linguistics, and linguistic geography. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

ENG 712 - Studies in Modern Grammar  Credits 3
Examination of important current approaches to grammatical descriptions, especially of English. Notes: May be repeated to a maximum of six credits.

ENG 714 - Studies in Rhetoric and Composition  Credits 3
Intensive study of selected topics in composition and rhetorical theory. Topics and reading lists will vary from semester to semester. Notes: May be repeated to a maximum of six credits.

ENG 715 - Theory of Translation  Credits 3
Readings in the theory of translation, as well as textual analysis of existing translations to and from several different languages. Notes: Taught in English. Prerequisites: Advanced knowledge of one foreign language, consent of instructor.

ENG 716 - Workshop in Translation  Credits 3
Explores problems inherent in the translation of foreign texts; completion of individual and group projects, with assistance of instructor. Notes: May be repeated to a maximum of six credits. Prerequisites: Advanced knowledge of one foreign language, consent of instructor.

ENG 719 - Area Linguistics  Credits 3
Historical overview of area linguistics, with emphasis on principles of dialectology in the English speaking world and the principles of linguistic atlases in the United States and Canada.

ENG 720 - Studies in Medieval Literature  Credits 3
Intense study of selected topics in medieval literature. Notes: May be repeated to a maximum of six credits.

ENG 722 - Studies in Chaucer  Credits 3
Study of major works of Geoffrey Chaucer in relation to their medieval literary and cultural context. Prerequisites: Graduate standing or consent of instructor.

ENG 723 - Studies in the Renaissance  Credits 3
Intensive study of selected topics in sixteenth-century literature. Notes: May be repeated to a maximum of six credits.

ENG 724 - Studies in Early Seventeenth-Century Literature  Credits 3
Intensive study of selected literary topics in early seventeenth-century literature. Notes: May be repeated to a maximum of six credits.

ENG 725 - Studies in Shakespeare  Credits 3
Intensive study of selected works of Shakespeare, with emphasis on genre, theme, or chronological grouping. Notes: May be repeated to a maximum of nine credits.

ENG 728 - Studies in Milton  Credits 3
Study of the major works of John Milton in relation to their Renaissance literary and cultural context. Prerequisites: Graduate standing or consent of instructor.

ENG 729 - Forms of Fiction, Literary Nonfiction, or Poetry  Credits 3
The study of genre from the writer’s perspective. Notes: May be repeated to a maximum of nine credits.

ENG 731 - Studies in Restoration and Eighteenth-Century British Literature  Credits 3
Intensive study of selected literary topics in Restoration and eighteenth-century British literature. Notes: May be repeated to a maximum of six credits.

ENG 734 - Studies in English Romanticism  Credits 3
Intensive study of selected literary topics in the English romantic period.

ENG 735 - Studies in Victorian Literature  Credits 3
Intensive examination of selected topics in Victorian literature. Notes: May be repeated to a maximum of six credits.

ENG 738 - Studies in Modern British Literature  Credits 3
Modern literature studies with emphasis upon movements which center in Great Britain. Notes: May be repeated to a maximum of six credits.

ENG 739 - M.F.A. Translation  Credits 3
Students translate a short story, group of poems, or other work by a foreign writer. Notes: Open only to students in the M.F.A. Program who have passed the qualifying oral examination. FOL 717 may substitute for ENG 739. Prerequisites: Successful completion of the oral qualifying exam.

ENG 742 - Studies in Early American Literature  Credits 3
Intensive study of selected subjects in colonial or romantic American literature, such as the work of a few important literary figures, a group of related writers, or a literary movement. Notes: May be repeated to a maximum of six credits.

ENG 743 - Studies in Later American Literature  Credits 3
Intensive study of selected topics in late nineteenth- and early twentieth-century literature. Notes: May be repeated to a maximum of six credits.

ENG 744 - Studies in Modern American Literature  Credits 3
Intensive study of selected topics in contemporary literature. Notes: May be repeated to a maximum of six credits.

ENG 749 - M.F.A. Critical Essay  Credits 3
M.F.A. students’ individual investigation of an American or foreign novelist or poet using various critical methodologies. Prerequisites: Acceptance to the M.F.A. Program.

ENG 760 - Studies in Literary Genres  Credits 3
Intensive study of a literary genre, with particular attention to its history and development. Notes: May be repeated to a maximum of nine credits.

ENG 775 - Studies in Literary Criticism  Credits 3
Intensive study of selected major critical theories or a selected problem in the philosophy of criticism. Notes: May be repeated to a maximum of six credits.
ENG 787 - Studies in Modern Comparative Literature  Credits 3  
Modern literature studies with the emphasis upon international movements. Notes: May be repeated to a maximum of six credits.

ENG 790 - M.F.A. Thesis  Credits 3 – 12  
Open only to students in the M.F.A. program who have passed the qualifying oral examination. Students write a book-length manuscript of fiction or poetry. Notes: May be repeated but only a maximum of 12 credits may be applied to the student’s degree program. Grading: S/F grading only. Prerequisites: Successful completion of the oral qualifying exam.

ENG 791 - College Teaching in Language and Literature Credits 3  
Theory and practice in the teaching of English in college, particularly the first-year course. Notes: Required of all graduate assistants.

ENG 792 - Directed Studies in Language Credits 3  
Individual investigation of a language problem in Old, Middle, or Modern English including contributions of other languages using the various methodologies of descriptive linguistics. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.

ENG 794 - Independent Study - International Focus Credits 3 – 6  
Studies foreign cultures and languages in a non-English speaking setting. M.F.A. requirement which may be taken in lieu of registration in a foreign university. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

ENG 795 - Seminar  Credits 3  
Topics vary from semester to semester. Notes: May be repeated to a maximum of nine credits.

ENG 796 - Independent Study  Credits 1 – 3  
Open to students only upon approval of a written prospectus of the work to be done. Notes: Normally limited to three credits on the M.A. program of study.

ENG 797 - Thesis  Credits 3 – 6  
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied toward the student’s program. Grading: S/F grading only.

ENG 798 - Doctoral Research  Credits 1 – 3  
Independent study for graduate students in the Ph.D. program upon approval by the dissertation advisor of a written prospectus of the work to be done. Notes: Normally limited to six credits on the doctoral program of study. Prerequisites: Admission to Ph.D. program and consent of graduate director.

ENG 799 - Dissertation  Credits 3 – 9  
Open only to Ph.D. students who have passed the qualifying examination. Notes: May be repeated but only a maximum of 18 credits may be applied towards degree. Prerequisites: Consent of graduate director.

**History**

The graduate programs in History are designed to achieve a balance between scholarship and teaching. Advanced study in the areas of North America, Europe, Latin America, Asia, and in public history has prepared many of our graduates for teaching positions in area schools and community colleges. Our course offerings, which train students in research, writing, editing, and critical analysis, have qualified many of our graduates for admission to doctoral programs, law schools, and jobs in historic preservation, the National Park Service, historical societies, museums, and international business firms.

Andrew Kirk, Ph.D., Chair  
William Bauer, Ph.D., Graduate Coordinator

**History Faculty**

**Chair**
Kirk, Andrew Glenn - Full Graduate Faculty Professor; B.A., University of Colorado-Denver; Ph.D., University of New Mexico. Rebel since 1999.

**Graduate Coordinator**
Bauer, William - Full Graduate Faculty Professor; B.A., University of Notre Dame; M.A., Ph.D., University of Oklahoma. Rebel since 2009.

**Graduate Faculty**
Alarid, Michael - Full Graduate Faculty Assistant Professor; B.A., University of Oregon; M.A., University of Dallas; Ph.D., Ohio State University. Rebel since 2014.

Bauer, William - Full Graduate Faculty Professor; B.A., University of Notre Dame; M.A., Ph.D., University of Oklahoma. Rebel since 2009.

Brown, Gregory - Full Graduate Faculty Professor; B.A., University of Pennsylvania; M.A., Ph.D., Columbia University. Rebel since 1998.

Casas, Maria Raquel - Full Graduate Faculty Associate Professor; B.A., California State University at Fresno; M.A., Ph.D., Yale University. Rebel since 1997.

Clemente, Deirdre - Full Graduate Faculty Associate Professor; B.A., Johns Hopkins University; M.A. Fashion Institute of Technology, State University of New York; Ph.D., Carnegie Mellon University. Rebel since 2011.

Coughtry, Jay A. - Full Graduate Faculty Associate Professor; B.A., State University of New York, Geneseo; M.A., Ph.D., University of Wisconsin. Rebel since 1982.

Curry, John - Full Graduate Faculty Associate Professor; B.A., Northwestern University; M.A., Ph.D., Ohio State University. Rebel since 2006.

Dean, Austin - Full Graduate Faculty Assistant Professor; B.A., Grinnell College; Ph.D., Ohio State University. Rebel since 2016.

Dimas, Carlos - Full Graduate Faculty Assistant Professor; B.A., Woodbury University; Ph.D., University of California, Riverside. Rebel since 2018.

Gallo, Marcia M. - Full Graduate Faculty Associate Professor; B.A., Holy Names University; Ph.D., City University of New York Graduate School. Rebel since 2009.

Green, Michael - Full Graduate Faculty Associate Professor; B.A., M.A., University of Nevada, Las Vegas; Ph.D., Columbia University. Rebel since 2014.

Goodwin, Joanne - Full Graduate Faculty Professor; B.F.A., University of Washington; M.A., Sarah Lawrence College; Ph.D., University of Michigan. Rebel since 1991.
Johnston, Susan Lee - Full Graduate Faculty Harry Reid Chair in the History of the Intermountain West and Professor; B.A., Carthage College; M.A., Arizona State University; Ph.D., Yale University. Rebel since 2019.

Kirk, Andrew Glenn - Full Graduate Faculty Professor; B.A., M.A., University of Colorado-Denver; Ph.D., University of New Mexico. Rebel since 1999.

Litaker, Noria - Full Graduate Faculty Assistant Professor; B.A. Ithaca College; M.A., University College London; Ph.D., University of Pennsylvania. Rebel since 2017.

McMahon, Cian - Full Graduate Faculty. Assistant Professor; B.A., University of Manitoba; M.A., University of Dublin; Ph.D., Carnegie Mellon University. Rebel since 2014.

Melton-Villanueva, Miriam - Full Graduate Faculty Assistant Professor; B.A., M.A., C. Phil., Ph.D., University of California, Los Angeles. Rebel since 2012.

Nelson, Elizabeth White - Full Graduate Faculty Associate Professor; A.B., Bryn Mawr College; M.A., Ph.D., Yale University. Rebel since 1996.

Robinson, Todd - Full Graduate Faculty Associate Professor; B.A., American University; M.M., Cambridge College; M.A., University of Massachusetts; Ph.D., University of Michigan. Rebel since 2007.

Schauer, Jeff - Full Graduate Faculty Assistant Professor; B.A., University of California, Irvine; Ph.D., University of California, Berkeley. Rebel since 2014.

Tanenhaus, David - Full Graduate Faculty Professor; B.A., Grinnell College; M.A., Ph.D., University of Chicago. Rebel since 1997.

Tusan, Michelle - Full Graduate Faculty Professor; B.A., University of California, Davis; M.A., Ph.D., University of California, Berkeley. Rebel since 2001.

Wert, Paul - Full Graduate Faculty Professor; B.A., Knox College; Ph.D., University of Michigan. Rebel since 1997.

Whitney, Elspeth - Full Graduate Faculty Professor; B.A., San Francisco State University; Ph.D., City University of New York. Rebel since 1990.

Wilkinson, A.B. - Full Graduate Faculty Assistant Professor; B.A., Dartmouth College, M.A., University of Chicago; Ph.D., University of California, Berkeley. Rebel since 2014.

Winkelmann, Tessa - Full Graduate Faculty Assistant Professor; B.A., University of California, Irvine; M.A., San Francisco State University; Ph.D., University of Illinois, Urbana-Champaign. Rebel since 2015.

Professors Emeriti

Burns, Paul E. Emeritus Professor; B.A., Miami University (Ohio); M.A., Certificate in Russian Studies, Ph.D., Indiana University. UNLV Emeritus 1963-1995.

Davenport, Robert W. Emeritus Associate Professor; B.A., Pomona College; M.A., University of California, Berkeley; M.S., Ph.D., University of California. Los Angeles. UNLV Emeritus 1964-1998.

Fry, Joseph A. Distinguished Professor; B.A., Davis and Elkins College; M.A., Ph.D., University of Virginia. UNLV Emeritus since 2014.

Hise, Greg - Full Graduate Faculty Professor; B.A. University of California, Berkeley; Ph.D., University of California, Berkeley. Rebel since 2008.

Loader, Colin T. Professor; A.B., Bates College; M.A., University of Rhode Island; Ph.D., University of California, Los Angeles. UNLV Emeritus since 2015.

Mattson, Vernon E. Emeritus Associate Professor; B.A., Tennessee Temple College; M.A., North Texas State University; Ph.D., University of Kansas. UNLV Emeritus 1969.

Mochring, Eugene P. Professor; B.A., M.A., Queens College; Ph.D., City University of New York. UNLV Emeritus since 2016.

Wright, Thomas C. Emeritus Distinguished Professor; B.A., Pomona College; M.A., Ph.D., University of California, Berkeley. UNLV Emeritus 1972.

Doctor of Philosophy - History

Plan Description

The degree of Doctor of Philosophy is the ultimate expression of the History Department’s mission to generate and disseminate new knowledge of the past through research, reflection and publication. The doctoral program in history at UNLV has two tracks: United States History and European History. The degree aims at providing graduates with the capacity for original research and thought as demonstrated by the completion of a doctoral dissertation of substantial scope combining imagination and excellence.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Doctor of Philosophy - History; Concentration in European Culture and Society
- Doctor of Philosophy - History; Concentration in North American Culture and Society
- Doctor of Philosophy - History; Concentration in North American West

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.
2. Applicants must have completed significant course work at the upper division or graduate level in History.
3. Competitive scores on verbal, quantitative and analytical measures of the Graduate Record Examination.
4. Recommendations from three former instructors addressing the applicant’s preparedness for doctoral level work in United States History or European History.
5. A statement of purpose in which the applicant describes specific interests in and approaches to either United States History or European History. The statement should also include a description of the applicant’s background and training for advanced work in this field as well as academic and professional goals.
6. A writing sample in the form of a master’s thesis
or original research paper of substantial length and quality. If possible, the writing sample should engage either United States History or European History.

**Post-Bachelor’s Tracks**

1. B.A. or equivalent from an accredited institution with a minimum GPA of 3.75.
2. Students must have written an Honors Thesis in History or a closely related field, which must be uploaded as part of the application.

**Post-Master’s Tracks**

1. M.A. or equivalent from an accredited institution with a minimum GPA of 3.50.
2. Students who have not completed HIST 710 and HIST 740 as part of their master’s degree will be required to complete them as a condition of their admission. Note: These courses will not count toward the 35 credits required for the Doctor of Philosophy – History.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

See Subplan Requirements below.

**Subplan 1 Requirements: Post-Bachelor’s - North American West Track**

Total Credits Required: 69

**Course Requirements**

Required Courses – Credits: 8

- HIST 710 - The Professional Historian
- HIST 726 - Colloquium in American Western History
- HIST 727 - Research Seminar in American Western History

Historiography Courses – Credits: 9

Complete three of the following courses:

- HIST 740A - Historiography (United States - Domestic)
- HIST 740E - Historiography (United States - Diplomatic)
- HIST 740F - Historiography (American West)
- HIST 740G - Historiography (United States - Cultural/Intellectual)

Colloquium Course – Credits: 3

Complete one of the following courses (excluding any courses taken as Non-U.S. Colloquium):

- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History

- HIST 730 - Colloquium in American History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4

Complete one of the following courses:

- HIST 725 - Seminar in American Cultural/Intellectual History
- HIST 731 - Research Seminar in American History
- HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12

In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.

**Asian History**

Minor Colloquium Course

- HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 649A - History of Japan to 1800
- HIST 649B - History of Japan since 1800
- HIST 649C - Topics in Japanese History
- HIST 655A - History of China to 1800
- HIST 655B - History of China since 1800
- HIST 655C - Topics in Modern China
- HIST 689 - Comparative History
- HIST 698 - Advanced Historical Studies
- HIST 735 - Research Seminar in Modern Asian History
- HIST 740 - Historiography
- HIST 761 - Doctoral Independent Study
- HIST 741 - Colloquium in Transnational History

**European History**

Minor Colloquium Course

Complete one of the following courses:

- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 732 - Colloquium in European History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 619A - Britain to 1750
- HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History

Latin American History

• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History
• HIST 733 - Research Seminar in European History
• HIST 760 - Advanced Studies in History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

Minor Colloquium Course
• HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses

Complete 9 credits from the following list of courses:

• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Courses

• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course

Complete one of the following courses:

• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 761 - Doctoral Independent Study

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Minor Elective Courses
Complete 9 credits from the following list of courses:

• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women in Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 734 - Colloquium in Modern Asian History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 739 - Research Seminar in African and Middle Eastern History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 761 - Doctoral Independent Study
Elective Courses – Credits: 3
Complete 3 credits of History elective coursework, or other advisor-approved courses.

After successfully completing the requirements above, students are eligible to earn the Master of Arts – History.

Additional Elective Courses – Credits: 18
Complete 18 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12
• HIST 791 - Dissertation

Degree Requirements
1. Students are expected to take courses with as many members of the faculty who specialize in the history of the North American West as possible. Students are encouraged to take more than the minimum number of courses.

2. A minimum of 45 credit hours of course work must be at the 700-level (excluding Dissertation).

3. Foreign Language Requirement. This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee: a. Demonstrated reading knowledge of two foreign languages. b. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language. c. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.

4. The completion of the second seminar paper will constitute the master’s culminating experience; it will be evaluated by a committee consisting of the instructor of record, the student’s primary advisor and the graduate coordinator.

5. Please note that the MA degree will not be conferred automatically. Students must take the initiative to seek committee approval and apply for conferral through the Graduate College.

6. Doctoral students may also apply to transfer into the MA program at any point, but this will require a new application.

7. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.

8. Written and Oral Qualifying Examinations. Students write a total of six out of twelve essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams. For purposes of examination, and through close consultation with the student’s committee chair and members of the committee, coursework and supplemental reading will be divided into four examination areas, each of which is comprised of four questions from which the students write on two. a. Major Field (General United States History): the written examination focuses on the first or second half of U.S. History (1600 to 1877, or 1850 to Present), but students are required to answer questions on the full sweep of U.S. History in the oral examination. A student writes on two of four questions. b. Major Field (Topical): Requires students to master the literature in North American West. A student writes on two of four questions. c. Theory and Methods: A student chooses Applied Theory, Comparative History, or Public History. A student writes on one of two questions. d. Minor Field: A student chooses one of the following fields: Asian History, European History, Latin American History, Public History, or World History. A student may only be examined in Public History in one field. A student writes on one of two questions.

9. Students must pass the written portion of the qualifying exam before they are allowed to take the oral qualifying exam.

10. Students may take up to three credits of Dissertation Prospectus course, but these credits will not count towards the total credits required for the degree.

11. The prospectus colloquium must be held within three months of the successful completion of the comprehensive examinations. Students must formally present a prospectus for their proposed dissertation research to their advisory committee before taking dissertation credits. The prospectus must be accepted for the student to have ABD status in the History Department.

12. A dissertation of substantial length and quality containing original research and interpretation on a topic in the field of Northern American West.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s (if applicable) and Doctoral portions of the program.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Post-Bachelor’s - North American Culture and Society Track

Total Credits Required: 69

Course Requirements

Required Courses – Credits: 8
- HIST 710 - The Professional Historian
- HIST 726 - Colloquium in American Western History
- HIST 725 - Seminar in American Cultural/Intellectual History

Historiography Courses – Credits: 9
Complete three of the following courses:
- HIST 740A - Historiography (United States - Domestic)
- HIST 740E - Historiography (United States - Diplomatic)
- HIST 740G - Historiography (United States - Cultural/Intellectual)
- HIST 740H - Historiography (European Cultural/Intellectual)

Colloquium Course – Credits: 3
Complete one of the following courses (excluding any courses taken as Non-European Colloquium):
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 730 - Colloquium in American History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4
Complete one of the following courses:
- HIST 727 - Research Seminar in American Western History
- HIST 731 - Research Seminar in American History
- HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.
- HIST 656 - Topics in Ancient History
- HIST 657 - Ancient Greek Civilization
- HIST 658 - Roman Civilization
- HIST 659 - Medieval Civilization
- HIST 659A - Topics in Medieval History
- HIST 660A - The Renaissance
- HIST 660B - The Reformation
- HIST 661 - Europe in the 18th Century
- HIST 661B - Early Modern Europe: 1550-1789
- HIST 662 - The French Revolution and Napoleon
- HIST 663 - Europe: 1815-1914
- HIST 664 - Europe: 1914 to the Present
- HIST 666 - European Diplomatic History, 1815-Present
- HIST 667 - History of the British Empire
- HIST 679A - West Africa and the Making of the Atlantic World
- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 689 - Comparative History
- HIST 691A - Women in the Ancient World
- HIST 691B - Women in Medieval Culture and Society
- HIST 692A - Women in Early Modern Europe
- HIST 692B - Woman’s Role in European History: 1750-1970
- HIST 695 - Special Topics in Gender and History
- HIST 696 - Philosophy of History
- HIST 729 - Research Seminar in European Cultural/Intellectual History
- HIST 732 - Colloquium in European History
- HIST 733 - Research Seminar in European History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 761 - Doctoral Independent Study

Latin American History

Minor Colloquium Course
- HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses

Complete 9 credits from the following list of courses:
- HIST 670 - History of Mexico

World History

Minor Colloquium Course
- HIST 738 - Colloquium in African and Middle Eastern History

Minor Elective Courses

Complete 9 credits from the following list of courses:
- HIST 619A - Britain to 1750
- HIST 619B - Britain from 1750
- HIST 620 - Topics in Central Europe: 1914 - Present
- HIST 621 - History of Russia to 1825
- HIST 622 - History of Russia Since 1825
- HIST 623A - History of Germany to 1848
- HIST 623B - History of Germany Since 1848
- HIST 634A - European Urban History
- HIST 635A - Early Modern Intellectual History
- HIST 635B - Modern Intellectual History
- HIST 635C - Topics in European Cultural and Intellectual History
- HIST 645 - Cultural History of Modern Russia
- HIST 646 - History of the Russian Film
- HIST 647 - Revolutionary Russia 1905-1921
- HIST 649A - History of Japan to 1800
- HIST 649B - History of Japan since 1800
- HIST 649C - Topics in Japanese History
- HIST 655A - History of China to 1800
- HIST 655B - History of China since 1800
- HIST 655C - Topics in Modern China
- HIST 656 - Topics in Ancient History
- HIST 657 - Ancient Greek Civilization
- HIST 658 - Roman Civilization
- HIST 659 - Medieval Civilization
- HIST 659A - Topics in Medieval History
- HIST 660A - The Renaissance
- HIST 660B - The Reformation
- HIST 661 - Europe in the 18th Century
- HIST 661B - Early Modern Europe: 1550-1789
- HIST 662 - The French Revolution and Napoleon
- HIST 663 - Europe: 1815-1914
- HIST 664 - Europe: 1914 to the Present
- HIST 666 - European Diplomatic History, 1815-Present
- HIST 668 - History of Science
- HIST 670 - History of Mexico
- HIST 671 - Revolution and Reaction in Contemporary Latin America
- HIST 672 - History of Brazil
- HIST 673 - History of the Andean Region
- HIST 674 - Latin American Ethnic Studies
- HIST 675 - Modern Latin American Film
- HIST 676 - The Mexican Revolution
- HIST 678A - Islamic and Middle Eastern History to 1750
- HIST 678B - Islamic and Middle Eastern History since 1750
- HIST 679 - History of the British Empire

- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 689 - Comparative History
- HIST 691A - Women in the Ancient World
- HIST 691B - Women in Medieval Culture and Society
- HIST 692A - Women In Early Modern Europe
- HIST 692B - Woman’s Role in European History: 1750-1970
- HIST 695 - Special Topics in Gender and History
- HIST 696 - Philosophy of History
- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 729 - Research Seminar in European Cultural/Intellectual History
- HIST 734 - Colloquium in Modern Asian History
- HIST 735 - Research Seminar in Modern Asian History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 737 - Research Seminar in Modern Latin American History
- HIST 739 - Research Seminar in African and Middle Eastern History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 748 - History and Policy
- HIST 761 - Doctoral Independent Study

Elective Courses – Credits: 3
Complete 3 credits of History elective coursework, or other advisor-approved courses.

After successfully completing the requirements above, students are eligible to earn the Master of Arts – History.

Additional Elective Courses – Credits: 18
Complete 18 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12
- HIST 791 - Dissertation

Degree Requirements
1. Students are expected to take courses with as many members of the faculty who specialize in the history of North American Culture and Society as possible. Students are encouraged to take more than the minimum number of courses.
2. A minimum of 45 credit hours of course work must be at the 700-level (excluding Dissertation).
3. **Foreign Language Requirement.** This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee: a. Demonstrated reading knowledge of two foreign languages. b. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language. c. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.

4. The completion of the second seminar paper will constitute the master’s culminating experience; it will be evaluated by a committee consisting of the instructor of record, the student’s primary advisor and the graduate coordinator.

5. Please note that the MA degree will not be conferred automatically. Students must take the initiative to seek committee approval and apply for conferral through the Graduate College.

6. Doctoral students may also apply to transfer into the MA program at any point, but this will require a new application.

7. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.

8. **Written and Oral Qualifying Examinations.** Students write a total of six out of twelve essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams. For purposes of examination, and through close consultation with the student’s committee chair and members of the committee, coursework and supplemental reading will be divided into four examination areas, each of which is comprised of four questions from which the students write on two. a. Major Field (General United States History): the written examination focuses on the first or second half of U.S. History (1600 to 1877, or 1850 to Present), but students are required to answer questions on the full sweep of U.S. History in the oral examination. A student writes on two of four questions. b. Major Field (Topical): Requires students to master the literature in North American Culture and Society. A student writes on two of four questions. c. Theory and Methods: A student chooses Applied Theory, Comparative History, or Public History. A student writes on one of two questions. d. Minor Field: A student chooses one of the following fields: Asian History, European History, Latin American History, Public History, or World History. A student may only be examined in Public History in one field. A student writes on one of two questions.

9. Students must pass the written portion of the qualifying exam before they are allowed to take the oral qualifying exam.

10. Students may take up to three credits of Dissertation Prospectus course, but these credits will not count towards the total credits required for the degree.

11. The prospectus colloquium must be held within three months of the successful completion of the comprehensive examinations. Students must formally present a prospectus for their proposed dissertation research to their advisory committee before taking dissertation credits. The prospectus must be accepted for the student to have ABD status in the History Department.

12. A dissertation of substantial length and quality containing original research and interpretation on a topic in the field of North American Culture and Society.

**Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s (if applicable) and Doctoral portions of the program.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

**Subplan 3 Requirements: Post-Bachelor’s - European Culture and Society Track**

Total Credits Required: 69

**Course Requirements**

**Required Courses – Credits: 8**

- HIST 710 - The Professional Historian
- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 729 - Research Seminar in European Cultural/Intellectual History
Historiography Courses – Credits: 9
Complete three of the following courses:
HIST 740B - Historiography (Europe)
HIST 740C - Historiography (Modern Asia)
HIST 740D - Historiography
HIST 740G - Historiography (United States - Cultural/Intellectual)
HIST 740H - Historiography (European Cultural/Intellectual)

Colloquium Course – Credits: 3
Complete one of the following courses (excluding any courses taken as Non-European Colloquium):
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History
• HIST 734 - Colloquium in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4
Complete one of the following courses:
• HIST 733 - Research Seminar in European History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 739 - Research Seminar in African and Middle Eastern History
• HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.

Asian History
Minor Colloquium Course
• HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800

Latin American History
Minor Colloquium Course
• HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 741 - Colloquium in Transnational History
• HIST 740 - Historiography
• HIST 761 - Doctoral Independent Study

Public History
Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Courses
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 761 - Doctoral Independent Study

U.S. History

Minor Colloquium Course

Complete one of the following courses:
• HIST 724 - Colloquium in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 730 - Colloquium in American History

Minor Elective Courses

Complete 9 credits from the following list of courses:
• HIST 601A - American Constitutional and Legal History I
• HIST 601B - American Constitutional and Legal History II
• HIST 604A - American Social History to 1860
• HIST 604B - American Social History, 1860-Present
• HIST 605 - History of the New South
• HIST 606A - The American West to 1849
• HIST 606B - The American West Since 1849
• HIST 607A - United States Foreign Relations I
• HIST 607B - United States Foreign Relations II
• HIST 610A - American Cultural and Intellectual History I
• HIST 610B - American Cultural and Intellectual History II
• HIST 611 - United States: Colonial Period
• HIST 612 - United States: Revolution and the New Republic
• HIST 614A - United States: National Period, 1815-1860
• HIST 614B - United States: Civil War and Reconstruction, 1860-1877
• HIST 615A - United States: Gilded Age, 1877-1900
• HIST 615B - United States: The Progressive Era, 1900-1920
• HIST 616A - Recent America: Era of Franklin D. Roosevelt, 1920-1945
• HIST 616B - Contemporary America: The U.S. Since 1945
• HIST 617A - Nevada and the Far West
• HIST 624 - Role of Religion in American Culture
• HIST 625 - History of Southern Nevada
• HIST 626 - The American West Through Film
• HIST 628 - History of Business in United States History
• HIST 629 - History of American Labor, 1607-Present
• HIST 632A - History of American Women to 1870
• HIST 632B - History of American Women, 1870 to Present
• HIST 633 - African-American History
• HIST 633B - African-American History to 1877
• HIST 633C - African-American History since 1877
• HIST 634 - Role of Cities in American History
• HIST 636 - Nazi Holocaust from the American Perspective
• HIST 637 - Family History
• HIST 638A - American Indian History to 1851
• HIST 638B - Ethnohistory of Native Americans Since 1851
• HIST 638C - Topics in American Indian History
• HIST 640 - Regions in American Indian History
• HIST 641 - American Environmental History
• HIST 643 - Comparative Environmental History
• HIST 643A - Historic Preservation
• HIST 644 - Latinos in the American West
• HIST 648 - Asian American History
• HIST 652A - Popular Culture in Nineteenth-Century America
• HIST 652B - Popular Culture in Twentieth-Century America
• HIST 653 - Women in Politics
• HIST 668 - History of Science
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 683A - Urban Destruction and Reconstruction
• HIST 685 - Oral History
• HIST 686 - Military History of the United States
• HIST 687 - Topics in American Studies
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 724 - Colloquium in American Cultural/Intellectual History
• HIST 725 - Seminar in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 730 - Colloquium in American History
• HIST 731 - Research Seminar in American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 761 - Doctoral Independent Study

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 734 - Colloquium in Modern Asian History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 739 - Research Seminar in African and Middle Eastern History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 761 - Doctoral Independent Study

Elective Courses – Credits: 3
Complete 3 credits of History elective coursework, or other advisor-approved courses.

After successfully completing the requirements above, students are eligible to earn the Master of Arts – History.

Additional Elective Courses – Credits: 18
Complete 18 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12
- HIST 791 - Dissertation

Degree Requirements
1. Students are expected to take courses with as many members of the faculty who specialize in the history of European Culture and Society as possible. Students are encouraged to take more than the minimum number of courses.
2. A minimum of 45 credit hours of course work must be at the 700-level (excluding Dissertation).
3. Foreign Language Requirement. This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee: a. Demonstrated reading knowledge of two foreign languages. b. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language. c. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.
4. The completion of the second seminar paper will constitute the master’s culminating experience; it will be evaluated by a committee consisting of the instructor of record, the student’s primary advisor and the graduate coordinator.
5. Please note that the MA degree will not be conferred automatically. Students must take the initiative to seek committee approval and apply for conferral through the Graduate College.
6. Doctoral students may also apply to transfer into the MA program at any point, but this will require a new application.
7. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.
8. Written and Oral Qualifying Examinations. Students write a total of eight out of sixteen essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s (if applicable) and Doctoral portions of the program.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: Post-Master’s - North American West Track

Total Credits Required: 47

Course Requirements

Required Courses – Credits: 7

- HIST 726 - Colloquium in American Western History
- HIST 727 - Research Seminar in American Western History

Historiography Courses – Credits: 6

Complete two of the following courses:

- HIST 740A - Historiography (United States - Domestic)
- HIST 740E - Historiography (United States - Diplomatic)
- HIST 740F - Historiography (American West)
- HIST 740G - Historiography (United States - Cultural/Intellectual)

Additional Colloquium Courses – Credits: 3

Complete one of the following courses:

- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 730 - Colloquium in American History
- HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4

Complete one of the following courses:

- HIST 725 - Seminar in American Cultural/Intellectual History
- HIST 731 - Research Seminar in American History
- HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12

In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.

Asian History

Minor Colloquium Course

- HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 649A - History of Japan to 1800
- HIST 649B - History of Japan since 1800
- HIST 649C - Topics in Japanese History
- HIST 655A - History of China to 1800
- HIST 655B - History of China since 1800
- HIST 655C - Topics in Modern China
- HIST 689 - Comparative History
- HIST 698 - Advanced Historical Studies
- HIST 735 - Research Seminar in Modern Asian History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 761 - Doctoral Independent Study

European History

Minor Colloquium Course

Complete one of the following courses:

- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 732 - Colloquium in European History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 619A - Britain to 1750
- HIST 619B - Britain from 1750
- HIST 620 - Topics in Central Europe: 1914 - Present
- HIST 621 - History of Russia to 1825
- HIST 622 - History of Russia Since 1825
- HIST 623A - History of Germany to 1848
- HIST 623B - History of Germany Since 1848
- HIST 635A - Early Modern Intellectual History
- HIST 635B - Modern Intellectual History
- HIST 635C - Topics in European Cultural and Intellectual History
- HIST 645 - Cultural History of Modern Russia
- HIST 646 - History of the Russian Film
- HIST 647 - Revolutionary Russia 1905-1921
- HIST 656 - Topics in Ancient History
- HIST 657 - Ancient Greek Civilization
- HIST 658 - Roman Civilization
- HIST 659 - Medieval Civilization
- HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History
• HIST 733 - Research Seminar in European History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

Latin American History

Minor Colloquium Course
• HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil

• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 740 - Historiography

Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Courses
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 761 - Doctoral Independent Study

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 692A - Women In Early Modern Europe
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 734 - Colloquium in Modern Asian History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 739 - Research Seminar in African and Middle Eastern History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 761 - Doctoral Independent Study

Elective Courses – Credits: 3
Complete 3 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12
• HIST 791 - Dissertation

Degree Requirements

1. Students are expected to take courses with as many members of the faculty who specialize in the history of the North American West as possible. Students are encouraged to take more than the minimum number of courses.

2. A minimum of 26 credit hours of course work must be at the 700-level (excluding Dissertation).

3. Foreign Language Requirement. This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee: a. Demonstrated reading knowledge of two foreign languages. b. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language. c. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.
4. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.

5. Written and Oral Qualifying Examinations. Students write a total of six out of twelve essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams. For purposes of examination, and through close consultation with the student's committee chair and members of the committee, coursework and supplemental reading will be divided into four examination areas, each of which is comprised of four questions from which the students write on two. a. Major Field (General United States History): the written examination focuses on the first or second half of U.S. History (1600 to 1877, or 1850 to Present), but students are required to answer questions on the full sweep of U.S. History in the oral examination. A student writes on two of four questions. b. Major Field (Topical): Requires students to master the literature in North American West. A student writes on two of four questions. c. Theory and Methods: A student chooses Applied Theory, Comparative History, or Public History. A student writes on one of two questions. d. Minor Field: A student chooses one of the following fields: Asian History, European History, Latin American History, Public History, or World History. A student may only be examined in Public History in one field. A student writes on one of two questions.

6. Students must pass the written portion of the qualifying exam before they are allowed to take the oral qualifying exam.

7. Students may take up to three credits of Dissertation Prospectus course, but these credits will not count towards the total credits required for the degree.

8. The prospectus colloquium must be held within three months of the successful completion of the comprehensive examinations. Students must formally present a prospectus for their proposed dissertation research to their advisory committee before taking dissertation credits. The prospectus must be accepted for the student to have ABD status in the History Department.

9. A dissertation of substantial length and quality containing original research and interpretation on a topic in the field of Northern American West.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

4. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.

Subplan 5 Requirements: Post-Master's - North American Culture and Society Track

Total Credits Required: 47

Course Requirements

Required Courses – Credits: 7
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 725 - Seminar in American Cultural/Intellectual History

Historiography Courses – Credits: 6
Complete two of the following courses:
- HIST 740A - Historiography (United States - Domestic)
- HIST 740E - Historiography (United States - Diplomatic)
- HIST 740F - Historiography (American West)
- HIST 740G - Historiography (United States - Cultural/Intellectual)
- HIST 740H - Historiography (European Cultural/Intellectual)

Colloquium Courses – Credits: 3
Complete one of the following courses:
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 730 - Colloquium in American History
- HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4
Complete one of the following courses:
- HIST 727 - Research Seminar in American Western History
- HIST 731 - Research Seminar in American History
- HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.
Asian History

Minor Colloquium Course

• HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses

Complete 9 credits from the following list of courses:

• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 689 - Comparative History
• HIST 698 - Advanced Historical Studies
• HIST 735 - Research Seminar in Modern Asian History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

European History

Minor Colloquium Course

Complete one of the following courses:

• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History

Minor Elective Courses

Complete 9 credits from the following list of courses:

• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History
• HIST 733 - Research Seminar in European History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 760 - Advanced Studies in History
• HIST 761 - Doctoral Independent Study

Latin American History

Minor Colloquium Course

• HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses

Complete 9 credits from the following list of courses:
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Course
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 761 - Doctoral Independent Study

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since
Elective Courses – Credits: 3
Complete 3 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12
• HIST 791 - Dissertation

Degree Requirements
1. Students are expected to take courses with as many members of the faculty who specialize in the history of North American Culture and Society as possible. Students are encouraged to take more than the minimum number of courses.
2. A minimum of 26 credit hours of course work must be at the 700-level (excluding Dissertation).
3. Foreign Language Requirement. This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee: a. Demonstrated reading knowledge of two foreign languages. b. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language. c. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.
4. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.
5. Written and Oral Qualifying Examinations. Students write a total of six out of twelve essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams. For purposes of examination, and through close consultation with the student’s committee chair and members of the committee, coursework and supplemental reading will be divided into four examination areas, each of which is comprised of four questions from which the students write on two. a. Major Field (General United States History): the written examination focuses on the first or second half of U.S. History (1600 to 1877, or 1850 to Present), but students are required to answer questions on the full sweep of U.S. History in the oral examination. A student writes on two of four questions. b. Major Field (Topical): Requires students to master the literature in North American Culture and Society. A student writes on two of four questions. c. Theory and Methods: A student chooses Applied Theory, Comparative History, or Public History. A student writes on one of two questions. d. Minor Field: A student chooses one of the following fields: Asian History, European History, Latin American History, Public History, or World History. A student may only be examined in Public History in one field. A student writes on one of two questions.
6. Students must pass the written portion of the qualifying exam before they are allowed to take the oral qualifying exam.
7. Students may take up to three credits of Dissertation Prospectus course, but these credits will not count towards the total credits required for the degree.
8. The prospectus colloquium must be held within three months of the successful completion of the comprehensive examinations. Students must formally present a prospectus for their proposed dissertation
research to their advisory committee before taking dissertation credits. The prospectus must be accepted for the student to have ABD status in the History Department.

9. A dissertation of substantial length and quality containing original research and interpretation on a topic in the field of North American Culture and Society.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 6 Requirements: Post-Master’s - European Culture and Society Track

Total Credits Required: 47

Course Requirements

Required Courses – Credits: 7

- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 729 - Research Seminar in European Cultural/Intellectual History

Historiography Courses – Credits: 6

Complete two of the following courses:

- HIST 740 - Historiography

Colloquium Courses – Credits: 3

Complete one of the following courses (excluding any courses taken as Non-European Colloquium):

- HIST 732 - Colloquium in European History
- HIST 734 - Colloquium in Modern Asian History
- HIST 735 - Research Seminar in Modern Asian History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 738 - Colloquium in African and Middle Eastern History
- HIST 741 - Colloquium in Transnational History

Seminar Courses – Credits: 4

Complete one of the following courses:

- HIST 729 - Research Seminar in European Cultural/Intellectual History
- HIST 733 - Research Seminar in European History
- HIST 735 - Research Seminar in Modern Asian History
- HIST 737 - Research Seminar in Modern Latin American History
- HIST 739 - Research Seminar in African and Middle Eastern History
- HIST 742 - Seminar in Transnational History

Minor Field Courses – Credits: 12

In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.

Asian History

Minor Colloquium Course

- HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 649A - History of Japan to 1800
- HIST 649B - History of Japan since 1800
- HIST 649C - Topics in Japanese History
- HIST 655A - History of China to 1800
- HIST 655B - History of China since 1800
- HIST 655C - Topics in Modern China
- HIST 689 - Comparative History
- HIST 698 - Advanced Historical Studies
- HIST 735 - Research Seminar in Modern Asian History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 761 - Doctoral Independent Study

Latin American History

Minor Colloquium Course

- HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 670 - History of Mexico
- HIST 671 - Revolution and Reaction in Contemporary Latin America
- HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 761 - Doctoral Independent Study

Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Courses
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 761 - Doctoral Independent Study

U.S. History

Minor Colloquium Course
Complete one of the following courses:
• HIST 724 - Colloquium in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 730 - Colloquium in American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 601A - American Constitutional and Legal History I
• HIST 601B - American Constitutional and Legal History II
• HIST 604A - American Social History to 1860
• HIST 604B - American Social History, 1860-Present
• HIST 605 - History of the New South
• HIST 606A - The American West to 1849
• HIST 606B - The American West Since 1849
• HIST 607A - United States Foreign Relations I
• HIST 607B - United States Foreign Relations II
• HIST 610A - American Cultural and Intellectual History I
• HIST 610B - American Cultural and Intellectual History II
• HIST 611 - United States: Colonial Period
• HIST 612 - United States: Revolution and the New Republic
• HIST 614A - United States: National Period, 1815-1860
• HIST 614B - United States: Civil War and Reconstruction, 1860-1877
• HIST 615A - United States: Gilded Age, 1877-1900
• HIST 615B - United States: The Progressive Era, 1900-1920
• HIST 616A - Recent America: Era of Franklin D. Roosevelt, 1920-1945
• HIST 616B - Contemporary America: The U.S. Since 1945
• HIST 617A - Nevada and the Far West
• HIST 624 - Role of Religion in American Culture
• HIST 625 - History of Southern Nevada
• HIST 626 - The American West Through Film
• HIST 628 - History of Business in United States History
• HIST 629 - History of American Labor, 1607-Present
• HIST 632A - History of American Women to 1870
• HIST 632B - History of American Women, 1870 to Present
• HIST 633 - African-American History
• HIST 633B - African-American History to 1877
• HIST 633C - African-American History since 1877
• HIST 634 - Role of Cities in American History
• HIST 636 - Nazi Holocaust from the American Perspective
• HIST 637 - Family History
• HIST 638A - American Indian History to 1851
• HIST 638B - Ethnohistory of Native Americans Since 1851
• HIST 638C - Topics in American Indian History
• HIST 640 - Regions in American Indian History
• HIST 641 - American Environmental History
• HIST 643 - Comparative Environmental History
• HIST 643A - Historic Preservation
• HIST 644 - Latinos in the American West
• HIST 648 - Asian American History
• HIST 652A - Popular Culture in Nineteenth-Century America
• HIST 652B - Popular Culture in Twentieth-Century America
- HIST 653 - Women in Politics
- HIST 668 - History of Science
- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 683A - Urban Destruction and Reconstruction
- HIST 685 - Oral History
- HIST 686 - Military History of the United States
- HIST 687 - Topics in American Studies
- HIST 689 - Comparative History
- HIST 695 - Special Topics in Gender and History
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 725 - Seminar in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 730 - Colloquium in American History
- HIST 731 - Research Seminar in American History
- HIST 748 - History and Policy
- HIST 761 - Doctoral Independent Study

World History

Minor Colloquium Course
- HIST 738 - Colloquium in African and Middle Eastern History
- HIST 741 - Colloquium in Transnational History

Minor Elective Courses

Complete 9 credits from the following list of courses:
- HIST 619A - Britain to 1750
- HIST 619B - Britain from 1750
- HIST 620 - Topics in Central Europe: 1914 - Present
- HIST 621 - History of Russia to 1825
- HIST 622 - History of Russia Since 1825
- HIST 623A - History of Germany to 1848
- HIST 623B - History of Germany Since 1848
- HIST 634A - European Urban History
- HIST 635A - Early Modern Intellectual History
- HIST 635B - Modern Intellectual History
- HIST 635C - Topics in European Cultural and Intellectual History
- HIST 645 - Cultural History of Modern Russia
- HIST 646 - History of the Russian Film
- HIST 647 - Revolutionary Russia 1905-1921
- HIST 649A - History of Japan to 1800
- HIST 649B - History of Japan since 1800
- HIST 649C - Topics in Japanese History
- HIST 655A - History of China to 1800
- HIST 655B - History of China since 1800
- HIST 655C - Topics in Modern China
- HIST 656 - Topics in Ancient history
- HIST 657 - Ancient Greek Civilization
- HIST 658 - Roman Civilization
- HIST 659 - Medieval Civilization
- HIST 659A - Topics in Medieval History
- HIST 660A - The Renaissance
- HIST 660B - The Reformation
- HIST 661 - Europe in the 18th Century
- HIST 661B - Early Modern Europe: 1550-1789
- HIST 662 - The French Revolution and Napoleon
- HIST 663 - Europe: 1815-1914
- HIST 664 - Europe: 1914 to the Present
- HIST 666 - European Diplomatic History, 1815-Present
- HIST 668 - History of Science
- HIST 670 - History of Mexico
- HIST 671 - Revolution and Reaction in Contemporary Latin America
- HIST 672 - History of Brazil
- HIST 673 - History of the Andean Region
- HIST 674 - Latin American Ethnic Studies
- HIST 675 - Modern Latin American Film
- HIST 676 - The Mexican Revolution
- HIST 678A - Islamic and Middle Eastern History to 1750
- HIST 678B - Islamic and Middle Eastern History since 1750
- HIST 679 - History of the British Empire
- HIST 679A - West Africa and the Making of the Atlantic World
- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 689 - Comparative History
- HIST 691A - Women in the Ancient World
- HIST 691B - Women in Medieval Culture and Society
- HIST 692A - Women In Early Modern Europe
- HIST 695 - Special Topics in Gender and History
Elective Courses – Credits: 3

Complete 3 credits of History elective coursework, or other advisor-approved courses.

Dissertation – Credits: 12

• HIST 791 - Dissertation

Degree Requirements

1. Students are expected to take courses with as many members of the faculty who specialize in the history of European Culture and Society as possible. Students are encouraged to take more than the minimum number of courses.

2. A minimum of 26 credit hours of course work must be at the 700-level (excluding Dissertation).

3. Foreign Language Requirement. This requirement can be met in any of the following three ways, though the chosen option must be approved by the chair of the student’s examination committee:
   1. Demonstrated reading knowledge of two foreign languages.
   2. Demonstrated reading knowledge of one foreign language and advanced reading knowledge of the same language, assessed through the writing of a substantial historiographical essay in English based on scholarly literature in that foreign language.
   3. With the approval of the student’s committee and the Graduate Coordinator, a student may demonstrate reading knowledge of one foreign language and the successful completion of SOC 604 - Statistical Methods in the Social Sciences.

4. Students may take up to six credits of Comprehensive Exam Preparation, but these credits will not count towards the total credits required for the degree.

5. Written and Oral Qualifying Examinations. Students write a total of six out of twelve essay questions. Students prepare extensive reading lists of books and articles for each field of study in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams. For purposes of examination, and through close consultation with the student’s committee chair and members of the committee, coursework and supplemental reading will be divided into four examination areas, each of which is comprised of four questions from which the students write on two.

   1. Major Field (General European History): Students, in consultation with their advisors, will define the parameters of the major field. Specific chronological parameters will vary but students are required to answer questions on the full sweep of European history in the oral examination. A student writes on two of four questions.

   2. Major Field (Topical): Requires students to master the literature in European Culture and Society. A student writes on two of four questions.

   3. Theory and Methods: A student chooses one of the following fields: Applied Theory, Public History, or Comparative History. A student writes on one of two questions.

   4. Minor Field: A student chooses one of the following fields: Asian History, Latin American History, Public History, United States History, or World History. A student may only be examined in Public History in one field. A student writes on one of two questions.

1. Students must pass the written portion of the qualifying exam before they are allowed to take the oral qualifying exam.

2. Students may take up to three credits of Dissertation Prospectus course, but these credits will not count towards the total credits required for the degree.

3. The prospectus colloquium must be held within three months of the successful completion of the comprehensive examinations. Students must formally present a prospectus for their proposed dissertation research to their advisory committee before taking dissertation credits. The prospectus must be accepted for the student to have ABD status in the History Department.
4. A dissertation of substantial length and quality containing original research and interpretation on a topic in the field of European Culture and Society.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

Master of Arts - History

Plan Description

The Department of History offers a Master of Arts degree with specializations in the following areas: United States, Europe, Asia, Latin America, and Public History (minor). The program is designed to broaden and deepen the student’s understanding of the heritage of human experience. It also sharpens scholarly skills and provides for some specialization in specific fields or periods of history.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Master of Arts - History; Non-Thesis
- Master of Arts - History; Thesis

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Students must meet the following requirements for admission to graduate standing.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

2. An overall undergraduate grade point average of at least 3.00.

3. A grade point average of at least 3.30 in history courses.

4. Recommendations from two former instructors addressing the applicant’s preparedness for graduate work in history.

5. A minimum of 18 credits in history.

6. Submission of a writing sample, preferably a research paper, representative of undergraduate work.

7. Submission of a statement of purpose in which the applicant describes historical areas and approaches of particular interest, background and training for advanced work in history, and academic and professional goals.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: United States History Track

Total Credits Required: 35

Course Requirements

Required Courses – Credits: 1

- HIST 710 - The Professional Historian

Historiography Courses – Credits: 3

Complete one of the following courses:

- HIST 740A - Historiography (United States - Domestic)
- HIST 740E - Historiography (United States - Diplomatic)
- HIST 740F - Historiography (American West)
- HIST 740G - Historiography (United States - Cultural/Intellectual)

Colloquium Course – Credits: 3

Complete one of the following courses:

- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 730 - Colloquium in American History

Seminar Course – Credits: 4

Complete one of the following courses:

- HIST 725 - Seminar in American Cultural/Intellectual History
- HIST 727 - Research Seminar in American Western History
- HIST 731 - Research Seminar in American History
- HIST 742 - Seminar in Transnational History
Elective Courses – Credits: 6-12
Students completing a thesis must complete 6 credits of History elective coursework, or other advisor-approved courses. Students who choose not to complete a thesis must complete 12 credits of History elective coursework, or other advisor-approved courses.

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.

Asian History

Minor Colloquium Course
• HIST 734 - Colloquium in Modern Asian History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 689 - Comparative History
• HIST 698 - Advanced Historical Studies
• HIST 735 - Research Seminar in Modern Asian History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 760 - Advanced Studies in History

European History

Minor Colloquium Course
Complete one of the following courses:
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 732 - Colloquium in European History
• HIST 733 - Research Seminar in European History
• HIST 760 - Advanced Studies in History
• HIST 741 - Colloquium in Transnational History
• HIST 740 - Historiography
• HIST 737 - Research Seminar in Modern Latin American History

Latin American History

Minor Colloquium Course
• HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 760 - Advanced Studies in History

Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Course
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 760 - Advanced Studies in History

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women in Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 734 - Colloquium in Modern Asian History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 737 - Research Seminar in Modern Latin American History
• HIST 739 - Research Seminar in African and Middle Eastern History
• HIST 748 - History and Policy
• HIST 740 - Historiography
• HIST 760 - Advanced Studies in History

Thesis – Credits: 6 (Optional)
• HIST 790 - Thesis

Degree Requirements
1. Students must complete a minimum of 35 credit hours of approved course work with a minimum GPA of 3.00.
2. A minimum of 16 credit hours of course work must be at the 700-level (excluding Thesis).
3. In addition to the major area of study, the student must complete twelve credits in a minor area.
4. The student’s advisor and graduate committee must approve all course work plans. A field outside of history may be presented as part of a student’s program. The student is required to have a reading knowledge of a foreign language if that language is necessary to do research in the selected field.
5. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
6. Students must successfully complete a written examination in their major area of study. This may be taken at the completion of twenty-two credits of course work, and must be taken no later than the completion of twenty-nine credits. Students prepare reading lists of books for each of their two fields within the major area in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams.
7. No grade below a B- will be accepted for graduate credit, but will be averaged into the student’s grade point average. A minimum GPA of 3.00 must be achieved in all graduate work attempted toward the degree.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. If a thesis is completed, the student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. If a thesis is completed, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 2 Requirements: European History Track
Total Credits Required: 35

Course Requirements

Required Courses – Credits: 1

• HIST 710 - The Professional Historian

Historiography Courses – Credits: 3
Complete one of the following courses:
HIST 740B – Historiography (Europe)  
HIST 740C – Historiography (Modern Asia)  
HIST 740D – Historiography (Modern Latin America)  
HIST 740G - Historiography (United States - Cultural/Intellectual)  
HIST 740H – Historiography (European - Cultural/Intellectual)

Colloquium Courses – Credits: 3
Complete one of the following courses:
• HIST 728 - Colloquium in European Cultural/Intellectual History  
• HIST 732 - Colloquium in European History  
• HIST 736 - Colloquium in Modern Latin American History  
• HIST 738 - Colloquium in African and Middle Eastern History  
• HIST 741 - Colloquium in Transnational History

Seminar Course – Credits: 4
Complete one of the following courses:
• HIST 729 - Research Seminar in European Cultural/Intellectual History  
• HIST 733 - Research Seminar in European History  
• HIST 737 - Research Seminar in Modern Latin American History  
• HIST 739 - Research Seminar in African and Middle Eastern History  
• HIST 742 - Seminar in Transnational History

Elective Courses – Credits: 6-12
Students completing a thesis must complete 6 credits of History elective coursework, or other advisor-approved courses. Students who choose not to complete a thesis must complete 12 credits of History elective coursework, or other advisor-approved courses.

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.
Public History

Minor Colloquium Course
- HIST 749 - Colloquium in Public History

Required Elective Course
- HIST 750 - Methods for the Study of Public History
- HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
- HIST 751 - Museums and American Culture
- HIST 752 - Modern Archives: Theory and Methodology
- HIST 754 - Topics in Public History
- HIST 760 - Advanced Studies in History

U.S. History

Minor Colloquium Course
Complete one of the following courses:
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 730 - Colloquium in American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
- HIST 601A - American Constitutional and Legal History I
- HIST 601B - American Constitutional and Legal History II
- HIST 604A - American Social History to 1860
- HIST 604B - American Social History, 1860-Present
- HIST 605 - History of the New South
- HIST 606A - The American West to 1849
- HIST 606B - The American West Since 1849
- HIST 607A - United States Foreign Relations I
- HIST 607B - United States Foreign Relations II
- HIST 610A - American Cultural and Intellectual History I
- HIST 610B - American Cultural and Intellectual History II
- HIST 611 - United States: Colonial Period
- HIST 612 - United States: Revolution and the New Republic
- HIST 614A - United States: National Period, 1815-1860
- HIST 614B - United States: Civil War and Reconstruction, 1860-1877
- HIST 615A - United States: Gilded Age, 1877-1900
- HIST 615B - United States: The Progressive Era, 1900-1920
- HIST 616A - Recent America: Era of Franklin D. Roosevelt, 1920-1945
- HIST 616B - Contemporary America: The U.S. Since 1945
- HIST 617A - Nevada and the Far West
- HIST 624 - Role of Religion in American Culture
- HIST 625 - History of Southern Nevada
- HIST 626 - The American West Through Film
- HIST 628 - History of Business in United States History
- HIST 629 - History of American Labor, 1607-Present
- HIST 632A - History of American Women to 1870
- HIST 632B - History of American Women, 1870 to Present
- HIST 633 - African-American History
- HIST 633B - African-American History to 1877
- HIST 633C - African-American History since 1877
- HIST 634 - Role of Cities in American History
- HIST 636 - Nazi Holocaust from the American Perspective
- HIST 637 - Family History
- HIST 638A - American Indian History to 1851
- HIST 638B - Ethnohistory of Native Americans Since 1851
- HIST 638C - Topics in American Indian History
- HIST 640 - Regions in American Indian History
- HIST 641 - American Environmental History
- HIST 643 - Comparative Environmental History
- HIST 643A - Historic Preservation
- HIST 644 - Latinos in the American West
- HIST 648 - Asian American History
- HIST 652A - Popular Culture in Nineteenth-Century America
- HIST 652B - Popular Culture in Twentieth-Century America
- HIST 653 - Women in Politics
- HIST 668 - History of Science
- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 683A - Urban Destruction and Reconstruction
- HIST 685 - Oral History
- HIST 686 - Military History of the United States
• HIST 687 - Topics in American Studies
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 724 - Colloquium in American Cultural/Intellectual History
• HIST 725 - Seminar in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 730 - Colloquium in American History
• HIST 731 - Research Seminar in American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 760 - Advanced Studies in History

World History

Minor Colloquium Course
• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Minor Elective Courses

Complete 9 credits from the following list of courses:

• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization
• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 692A - Women In Early Modern Europe
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/
Intellectual History

- HIST 734 - Colloquium in Modern Asian History
- HIST 735 - Research Seminar in Modern Asian History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 737 - Research Seminar in Modern Latin American History
- HIST 739 - Research Seminar in African and Middle Eastern History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 748 - History and Policy
- HIST 760 - Advanced Studies in History

Thesis – Credits: 6 (Optional)
- HIST 790 - Thesis

Degree Requirements

1. Students must complete a minimum of 35 credit hours of approved course work with a minimum GPA of 3.00.
2. A minimum of 16 credit hours of course work must be at the 700-level (excluding Thesis).
3. In addition to the major area of study, the student must complete twelve credits in a minor area.
4. The student’s advisor and graduate committee must approve all course work plans. A field outside of history may be presented as part of a student’s program. The student is required to have a reading knowledge of a foreign language if that language is necessary to do research in the selected field.
5. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
6. Students must successfully complete a written examination in their major area of study. This may be taken at the completion of twenty-two credits of course work, and must be taken no later than the completion of twenty-nine credits. Students prepare reading lists of books for each of their two fields within the major area in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams.
7. No grade below a B- will be accepted for graduate credit, but will be averaged into the student’s grade point average. A minimum GPA of 3.00 must be achieved in all graduate work attempted toward the degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. If a thesis is completed, the student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. If a thesis is completed, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Asian History Track

Total Credits Required: 35

Course Requirements

Required Courses – Credits: 1
- HIST 710 - The Professional Historian

Historiography Courses – Credits: 3
Complete one of the following courses:
- HIST 740C – Historiography (Modern Asia)
- HIST 740E - Historiography (United States - Diplomatic)

Colloquium Courses – Credits: 3
Complete one of the following courses:
- HIST 734 - Colloquium in Modern Asian History

Seminar Course – Credits: 4
Complete one of the following courses:
- HIST 735 - Research Seminar in Modern Asian History
- HIST 742 - Seminar in Transnational History

Elective Courses – Credits: 6-12
Students completing a thesis must complete 6 credits of History elective coursework, or other advisor-approved courses. Students who choose not to complete a thesis must complete 12 credits of History elective coursework, or other advisor-approved courses.

Minor Field Courses – Credits: 12
In consultation with your advisor select a minor field of study and complete 3 credits of colloquium and 9 credits of electives to total 12 credits.
European History

Minor Colloquium Course

Complete one of the following courses:

- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 732 - Colloquium in European History

European History

- HIST 619A - Britain to 1750
- HIST 619B - Britain from 1750
- HIST 620 - Topics in Central Europe: 1914 - Present
- HIST 621 - History of Russia to 1825
- HIST 622 - History of Russia Since 1825
- HIST 623A - History of Germany to 1848
- HIST 623B - History of Germany Since 1848
- HIST 634A - European Urban History
- HIST 635A - Early Modern Intellectual History
- HIST 635B - Modern Intellectual History
- HIST 635C - Topics in European Cultural and Intellectual History
- HIST 645 - Cultural History of Modern Russia
- HIST 646 - History of the Russian Film
- HIST 647 - Revolutionary Russia 1905-1921
- HIST 656 - Topics in Ancient History
- HIST 657 - Ancient Greek Civilization
- HIST 658 - Roman Civilization
- HIST 659 - Medieval Civilization
- HIST 659A - Topics in Medieval History
- HIST 660A - The Renaissance
- HIST 660B - The Reformation
- HIST 661 - Europe in the 18th Century
- HIST 661B - Early Modern Europe: 1550-1789
- HIST 662 - The French Revolution and Napoleon
- HIST 663 - Europe: 1815-1914
- HIST 664 - Europe: 1914 to the Present
- HIST 666 - European Diplomatic History, 1815-Present
- HIST 668 - History of Science
- HIST 679 - History of the British Empire
- HIST 679A - West Africa and the Making of the Atlantic World
- HIST 682 - Music History I
- HIST 683 - Music History II
- HIST 689 - Comparative History
- HIST 691A - Women in the Ancient World
- HIST 691B - Women in Medieval Culture and Society
- HIST 692B - Woman's Role in European History: 1750-1970
- HIST 692A - Women In Early Modern Europe
- HIST 695 - Special Topics in Gender and History
- HIST 696 - Philosophy of History
- HIST 729 - Research Seminar in European Cultural/Intellectual History
- HIST 732 - Colloquium in European History
- HIST 733 - Research Seminar in European History
- HIST 737 - Research Seminar in Modern Latin American History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 760 - Advanced Studies in History

Latin American History

Minor Colloquium Course

- HIST 736 - Colloquium in Modern Latin American History

Minor Elective Courses

Complete 9 credits from the following list of courses:

- HIST 670 - History of Mexico
- HIST 671 - Revolution and Reaction in Contemporary Latin America
- HIST 672 - History of Brazil
- HIST 673 - History of the Andean Region
- HIST 674 - Latin American Ethnic Studies
- HIST 675 - Modern Latin American Film
- HIST 676 - The Mexican Revolution
- HIST 679A - West Africa and the Making of the Atlantic World
- HIST 689 - Comparative History
- HIST 695 - Special Topics in Gender and History
- HIST 737 - Research Seminar in Modern Latin American History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 760 - Advanced Studies in History
Public History

Minor Colloquium Course
• HIST 749 - Colloquium in Public History

Required Elective Courses
• HIST 750 - Methods for the Study of Public History
• HIST 795 - Internship in Public History

Minor Elective Course
Complete one of the following courses:
• HIST 751 - Museums and American Culture
• HIST 752 - Modern Archives: Theory and Methodology
• HIST 754 - Topics in Public History
• HIST 760 - Advanced Studies in History

U.S. History

Minor Colloquium Course
Complete one of the following courses:
• HIST 724 - Colloquium in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 730 - Colloquium in American History

Minor Elective Courses
Complete 9 credits from the following list of courses:
• HIST 601A - American Constitutional and Legal History I
• HIST 601B - American Constitutional and Legal History II
• HIST 604A - American Social History to 1860
• HIST 604B - American Social History, 1860-Present
• HIST 605 - History of the New South
• HIST 606A - The American West to 1849
• HIST 606B - The American West Since 1849
• HIST 607A - United States Foreign Relations I
• HIST 607B - United States Foreign Relations II
• HIST 610A - American Cultural and Intellectual History I
• HIST 610B - American Cultural and Intellectual History II
• HIST 611 - United States: Colonial Period
• HIST 612 - United States: Revolution and the New Republic
• HIST 614A - United States: National Period, 1815-1860
• HIST 614B - United States: Civil War and Reconstruction, 1860-1877
• HIST 615A - United States: Gilded Age, 1877-1900
• HIST 615B - United States: The Progressive Era, 1900-1920
• HIST 616A - Recent America: Era of Franklin D. Roosevelt, 1920-1945
• HIST 616B - Contemporary America: The U.S. Since 1945
• HIST 617A - Nevada and the Far West
• HIST 624 - Role of Religion in American Culture
• HIST 625 - History of Southern Nevada
• HIST 626 - The American West Through Film
• HIST 628 - History of Business in United States History
• HIST 629 - History of American Labor, 1607-Present
• HIST 632A - History of American Women to 1870
• HIST 632B - History of American Women, 1870 to Present
• HIST 633 - African-American History
• HIST 633B - African-American History to 1877
• HIST 633C - African-American History since 1877
• HIST 634 - Role of Cities in American History
• HIST 636 - Nazi Holocaust from the American Perspective
• HIST 637 - Family History
• HIST 638A - American Indian History to 1851
• HIST 638B - Ethnohistory of Native Americans Since 1851
• HIST 638C - Topics in American Indian History
• HIST 640 - Regions in American Indian History
• HIST 641 - American Environmental History
• HIST 643 - Comparative Environmental History
• HIST 643A - Historic Preservation
• HIST 644 - Latinos in the American West
• HIST 648 - Asian American History
• HIST 652A - Popular Culture in Nineteenth-Century America
• HIST 652B - Popular Culture in Twentieth-Century America
• HIST 653 - Women in Politics
• HIST 668 - History of Science
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 683A - Urban Destruction and Reconstruction
• HIST 685 - Oral History
• HIST 686 - Military History of the United States
• HIST 687 - Topics in American Studies
• HIST 689 - Comparative History
• HIST 695 - Special Topics in Gender and History
• HIST 725 - Seminar in American Cultural/Intellectual History
• HIST 726 - Colloquium in American Western History
• HIST 731 - Research Seminar in American History
• HIST 740 - Historiography
• HIST 741 - Colloquium in Transnational History
• HIST 748 - History and Policy
• HIST 760 - Advanced Studies in History

World History

Minor Colloquium Course

• HIST 738 - Colloquium in African and Middle Eastern History
• HIST 741 - Colloquium in Transnational History

Minor Elective Courses

Complete 9 credits from the following list of courses:

• HIST 619A - Britain to 1750
• HIST 619B - Britain from 1750
• HIST 620 - Topics in Central Europe: 1914 - Present
• HIST 621 - History of Russia to 1825
• HIST 622 - History of Russia Since 1825
• HIST 623A - History of Germany to 1848
• HIST 623B - History of Germany Since 1848
• HIST 634A - European Urban History
• HIST 635A - Early Modern Intellectual History
• HIST 635B - Modern Intellectual History
• HIST 635C - Topics in European Cultural and Intellectual History
• HIST 645 - Cultural History of Modern Russia
• HIST 646 - History of the Russian Film
• HIST 647 - Revolutionary Russia 1905-1921
• HIST 649A - History of Japan to 1800
• HIST 649B - History of Japan since 1800
• HIST 649C - Topics in Japanese History
• HIST 655A - History of China to 1800
• HIST 655B - History of China since 1800
• HIST 655C - Topics in Modern China
• HIST 656 - Topics in Ancient History
• HIST 657 - Ancient Greek Civilization
• HIST 658 - Roman Civilization
• HIST 659 - Medieval Civilization

• HIST 659A - Topics in Medieval History
• HIST 660A - The Renaissance
• HIST 660B - The Reformation
• HIST 661 - Europe in the 18th Century
• HIST 661B - Early Modern Europe: 1550-1789
• HIST 662 - The French Revolution and Napoleon
• HIST 663 - Europe: 1815-1914
• HIST 664 - Europe: 1914 to the Present
• HIST 666 - European Diplomatic History, 1815-Present
• HIST 668 - History of Science
• HIST 670 - History of Mexico
• HIST 671 - Revolution and Reaction in Contemporary Latin America
• HIST 672 - History of Brazil
• HIST 673 - History of the Andean Region
• HIST 674 - Latin American Ethnic Studies
• HIST 675 - Modern Latin American Film
• HIST 676 - The Mexican Revolution
• HIST 678A - Islamic and Middle Eastern History to 1750
• HIST 678B - Islamic and Middle Eastern History since 1750
• HIST 679 - History of the British Empire
• HIST 679A - West Africa and the Making of the Atlantic World
• HIST 682 - Music History I
• HIST 683 - Music History II
• HIST 689 - Comparative History
• HIST 691A - Women in the Ancient World
• HIST 691B - Women in Medieval Culture and Society
• HIST 692A - Women In Early Modern Europe
• HIST 692B - Woman’s Role in European History: 1750-1970
• HIST 695 - Special Topics in Gender and History
• HIST 696 - Philosophy of History
• HIST 728 - Colloquium in European Cultural/Intellectual History
• HIST 729 - Research Seminar in European Cultural/Intellectual History
• HIST 734 - Colloquium in Modern Asian History
• HIST 735 - Research Seminar in Modern Asian History
• HIST 736 - Colloquium in Modern Latin American History
• HIST 737 - Research Seminar in Modern Latin American History
History

- HIST 739 - Research Seminar in African and Middle Eastern History
- HIST 740 - Historiography
- HIST 741 - Colloquium in Transnational History
- HIST 748 - History and Policy
- HIST 760 - Advanced Studies in History

Thesis – Credits: 6 (Optional)
- HIST 790 - Thesis

Degree Requirements
1. Students must complete a minimum of 35 credit hours of approved course work with a minimum GPA of 3.00.
2. A minimum of 16 credit hours of course work must be at the 700-level (excluding Thesis).
3. In addition to the major area of study, the student must complete twelve credits in a minor area.
4. The student’s advisor and graduate committee must approve all course work plans. A field outside of history may be presented as part of a student’s program. The student is required to have a reading knowledge of a foreign language if that language is necessary to do research in the selected field.
5. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
6. Students must successfully complete a written examination in their major area of study. This may be taken at the completion of twenty-two credits of course work, and must be taken no later than the completion of twenty-nine credits. Students prepare reading lists of books for each of their two fields within the major area in conjunction with the members of their advisory committee. The lists are based on scholarly works read in coursework, but substantial additional reading is required. Coursework alone does not constitute preparation for comprehensive exams.
7. No grade below a B- will be accepted for graduate credit, but will be averaged into the student’s grade point average. A minimum GPA of 3.00 must be achieved in all graduate work attempted toward the degree.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. If a thesis is completed, the student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. If a thesis is completed, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: Teaching History Track
Total Credits Required: 35

Course Requirements

Historical Content Required Courses – Credits: 4
- HIST 710 - The Professional Historian
- HIST 740 - Historiography

Historical Content Colloquium Course – Credits: 3
Complete one of the following courses:
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 728 - Colloquium in European Cultural/Intellectual History
- HIST 730 - Colloquium in American History
- HIST 732 - Colloquium in European History
- HIST 734 - Colloquium in Modern Asian History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 738 - Colloquium in African and Middle Eastern History
- HIST 741 - Colloquium in Transnational History

Historical Content Elective Courses – Credits: 6
Complete 6 credits of History electives.

Curriculum Materials Colloquium Course – Credits: 3
Complete one of the following courses:
- HIST 724 - Colloquium in American Cultural/Intellectual History
- HIST 726 - Colloquium in American Western History
- HIST 728 - Colloquium in European Cultural/Intellectual History
Graduate Catalog • College of Liberal Arts

- HIST 730 - Colloquium in American History
- HIST 732 - Colloquium in European History
- HIST 734 - Colloquium in Modern Asian History
- HIST 736 - Colloquium in Modern Latin American History
- HIST 738 - Colloquium in African and Middle Eastern History
- HIST 741 - Colloquium in Transnational History
- HIST 749 - Colloquium in Public History

Curriculum Materials Elective Courses – Credits: 7

Complete seven credits of advisor-approved Public History courses (at least one of which must be at the 700-level).

Educational Methods Foundations Course – Credits: 3

Complete one of the following courses:
- CME 600 - Multicultural Education
- CIS 617 - Topics Secondary Education
- CIL 610 - Content Area Literacy

Educational Methods Development Course – Credits: 3

Complete one of the following courses:
- CIS 640 - Topics Secondary Social Studies Education
- CIS 644 - Instruction Secondary Social Studies Education
- CIS 649 - Curriculum Development Secondary Social Studies Education
- CIG 692 - Curriculum Evaluation in Education

Educational Methods Technology Course – Credits: 3

Complete one of the following courses:
- CIT 602 - Technology Applications Secondary Curriculum
- CIT 607 - Technology and Computational Thinking
- CIT 609 - Internet for Learning
- CIT 608 - Integrating Technology in Teaching and Learning

Capstone Course – Credits: 3

- HIST 790A - Materials for Teaching History

d. Educational Content

5. The student’s advisor and graduate committee must approve all course work plans. A field outside of history may be presented as part of a student’s program. The student is required to have a reading knowledge of a foreign language if that language is necessary to do research in the selected field.

6. Matriculants with extensive background in one of the sub-fields may, with the permission of their advisor in the College of Education, take an additional course from one of the two other sub-fields in place of a course in the field of existing expertise. Matriculants with an extensive background in two of the sub-fields may, with permission of the student’s advisor in Education, take 3 credits related to their program of study in another field outside of Education.

7. Students must successfully complete a written examination in Teacher’s Track: Historical Content. This may be taken at the completion of twenty-five credits, and must be taken no later than the completion of twenty-nine credits. The examination consists of two parts; each part contains two essay questions. Students write on one essay in each part of the exam (total of two essays, two hours for each; four hours total). Questions are written by the student’s committee member/s in the Historical Content field, and each part of the exam is based on a list of books prepared in conjunction with the members of the advisory committee.

8. Students must successfully complete a written examination in Historical Content. This may be taken at the completion of 25 credits, and must be taken no later than the completion of 35 credits. The examination consists of two parts; each part contains two essay questions. Students write on one essay in each part of the exam (total of two essays, two hours for each; four hours total). Questions are written by the student’s committee member/s in the Historical Content field, and each part of the exam is based on a list of books prepared in conjunction with the members of the advisory committee.

9. No grade below a B- will be accepted for graduate credit, but will be averaged into the student’s grade point average. A minimum GPA of 3.00 must be achieved in all graduate work attempted toward the degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. Successfully complete a Written Final Examination.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
HIST 601A - American Constitutional and Legal History I  
Analysis and interpretation of the life of the law in America from the seventeenth century to modern times. Though designed to complement one another, each half of this course may be taken independently. Notes: This course is crosslisted with HIST 401. Credit at the 600-level requires additional work.

HIST 601B - American Constitutional and Legal History II  
Analysis and interpretation of the life of the law in America from the seventeenth century to modern times. Though designed to complement one another, each half of this course may be taken independently. Notes: This course is crosslisted with HIST 402. Credit at the 600-level requires additional work.

HIST 604A - American Social History to 1860  
Analysis of demography, social structure and mobility factors, and societal institutions of the United States during its formative era. Special attention given to social issues and humanitarian reformism, and to sectional tensions arising from the antislavery movement. Chronological coverage extends from colonial period to Civil War, with emphasis on 1760-1850. Notes: This course is crosslisted with HIST 404A. Credit at the 600-level requires additional work.

HIST 604B - American Social History, 1860-Present  
Examination of U.S. social development since the Civil War, focusing upon problems arising from industrialism, immigration, and urbanism. Analysis of the responsive emergence of the ‘welfare state’ in the Progressive, New Deal, and post World War II eras, supplemented by study of current issues of racism, sexism, and contemporary counterculture. Notes: This course is crosslisted with HIST 404B. Credit at the 600-level requires additional work.

HIST 605 - History of the New South  
Analysis of the post-1865 American South and its regional distinctiveness, with particular emphasis on the rise and decline of one-party politics, economic development from Civil War devastation to the Sunbelt, race relations and the civil rights movement, and the South’s influence on U.S. foreign relations. Notes: This course is crosslisted with HIST 405. Credit at the 600-level requires additional work.

HIST 606A - The American West to 1849  
Narrative and interpretive study of the development of the West by imperial European powers and Americans to the California Gold Rush. Emphasis on the westward movement and its role in American history. Notes: This course is crosslisted with HIST 406A. Credit at the 600-level requires additional work.

HIST 606B - The American West Since 1849  
Narrative and interpretive study of the economic, political, and social developments in the trans-Mississippi West from the California Gold Rush to the present. Notes: This course is crosslisted with HIST 406B. Credit at the 600-level requires additional work.

HIST 607A - United States Foreign Relations I  
Analysis of the domestic origins, implementation, and international consequences of U.S. foreign relations from 1920 to the present. Includes diplomatic, economic, and cultural relations. Notes: This course is crosslisted with HIST 407A. Credit at the 600-level requires additional work.

HIST 607B - United States Foreign Relations II  
Analysis of the domestic origins, implementation, and international consequences of U.S. foreign relations from 1920 to the present. Includes diplomatic, economic, and cultural relations. Notes: This course is crosslisted with HIST 407B. Credit at the 600-level requires additional work.

HIST 610A - American Cultural and Intellectual History I  
Developments in cultural, intellectual, and religious history from European contact to the Civil War. Notes: This course is crosslisted with HIST 410A. Credit at the 600-level requires additional work.

HIST 610B - American Cultural and Intellectual History II  
Developments in cultural, intellectual, and religious history from the Civil War to the present. Notes: This course is crosslisted with HIST 410B. Credit at the 600-level requires additional work.

HIST 611 - United States: Colonial Period  
Origins of the North American colonies, development of colonial society, culture, and institutions; background factors involved in the American Revolution. Notes: This course is crosslisted with HIST 411. Credit at the 600-level requires additional work.

HIST 612 - United States: Revolution and the New Republic  
Examination of the course and impact of the American Revolution; the adoption of the Constitution; and the political, diplomatic, and economic developments during the early national period. Notes: This course is crosslisted with HIST 412. Credit at the 600-level requires additional work.

HIST 614A - United States: National Period, 1815-1860  
Credits 3  
Era of Good Feelings; the Age of Jackson; the problems of expansion; the growing controversy over slavery to the secession of South Carolina in December 1860. Notes: This course is crosslisted with HIST 414A. Credit at the 600-level requires additional work.

HIST 614B - United States: Civil War and Reconstruction, 1860-1877  
Credits 3  
Era of the Civil War from secession in 1860 to the close of hostilities in 1865; presidential and congressional Reconstruction until the close of this era in 1877. Notes: This course is crosslisted with HIST 414B. Credit at the 600-level requires additional work.

HIST 615A - United States: Gilded Age, 1877-1900  
Credits 3  
Analysis and interpretation of the impact of industrialization, immigration and urbanization upon the American experiment in republicanism. Examines how diverse Americans, including ex-slaves, farmers, feminists, “new” immigrants, Plains Indians, radicals, soldiers, statesmen, industrialists and laborers responded to these unsettling conditions and helped to usher in the modern age. Notes: This course is crosslisted with HIST 415A. Credit at the 600-level requires additional work.

HIST 615B - United States: The Progressive Era, 1900-1920  
Credits 3  
Analysis and interpretation of the dramatic social, cultural, and political changes that occurred in the United States between 1900 and 1920 in the period known as the Progressive Era. Examines how Americans fashioned responses to the challenges posed by the modernization and diversification of their society. Notes: This course is crosslisted with HIST 415B. Credit at the 600-level requires additional work.

HIST 616A - Recent America: Era of Franklin D. Roosevelt, 1920-1945  
Credits 3  
Examination of social, economic, and political trends in the 1920s and of the transition from inflated prosperity to the Great Depression of the 1930s. Special attention to F.D.R.’s presidential role, to the New Deal and concurrent domestic problems, and to foreign policy issues. Coverage includes U.S. entrance and role in World War II. Notes: This course is crosslisted with HIST 416A. Credit at the 600-level requires additional work.

HIST 616B - Contemporary America: The U.S. Since 1945  
Credits 3  
Cold War abroad and readjustments bringing influence and anxieties at home. Special focus upon the Korean War, McCarthyism, Kennedy’s New Frontier and Johnson’s Great Society, “limited warfare” in Cuba and Vietnam, and the Nixon Administration. Social and political tensions of the ’60s and ’70s also examined. Notes: This course is crosslisted with HIST 416B. Credit at the 600-level requires additional work.

HIST 617A - Nevada and the Far West  
Credits 3  
Study of the far western region, with emphasis on Nevada history. Includes research projects. Notes: This course is crosslisted with HIST 417A. Credit at the 600-level requires additional work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 619A</td>
<td>Britain to 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 619B</td>
<td>Britain from 1750</td>
<td>3</td>
</tr>
<tr>
<td>HIST 620</td>
<td>Topics in Central Europe: 1914 - Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 621</td>
<td>History of Russia to 1825</td>
<td>3</td>
</tr>
<tr>
<td>HIST 622</td>
<td>History of Russia Since 1825</td>
<td>3</td>
</tr>
<tr>
<td>HIST 623A</td>
<td>History of Germany to 1848</td>
<td>3</td>
</tr>
<tr>
<td>HIST 623B</td>
<td>History of Germany Since 1848</td>
<td>3</td>
</tr>
<tr>
<td>HIST 624</td>
<td>Role of Religion in American Culture</td>
<td>3</td>
</tr>
<tr>
<td>HIST 625</td>
<td>History of Southern Nevada</td>
<td>3</td>
</tr>
<tr>
<td>HIST 626</td>
<td>The American West Through Film</td>
<td>3</td>
</tr>
<tr>
<td>HIST 628</td>
<td>History of Business in United States History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 629</td>
<td>History of American Labor, 1607-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 630</td>
<td>Study of the relationship between religion and secular culture in the American experience from the colonial era to the present. Notes: This course is crosslisted with HIST 419A. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
<tr>
<td>HIST 631</td>
<td>Analysis and interpretation of the institutional, social, economic, political and cultural development of the German states. Notes: This course is crosslisted with HIST 422. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
<tr>
<td>HIST 632A</td>
<td>History of American Women to 1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 632B</td>
<td>History of American Women, 1870 to Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 633A</td>
<td>African-American History to 1870</td>
<td>3</td>
</tr>
<tr>
<td>HIST 633B</td>
<td>African-American History since 1877</td>
<td>3</td>
</tr>
<tr>
<td>HIST 634</td>
<td>Role of Cities in American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 635A</td>
<td>European Urban History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 635B</td>
<td>Modern Intellectual History</td>
<td>3</td>
</tr>
</tbody>
</table>

Analysis and interpretation of the economy, society, politics and culture of the British isles from earliest settlement to 1750. Notes: This course is crosslisted with HIST 419A. Credit at the 600-level requires additional work.

Analysis and interpretation of the economy, society, politics and culture of the British isles and British empire from 1750 to present. Notes: This course is crosslisted with HIST 419B. Credit at the 600-level requires additional work.

Topics on the political and social change in Central Europe from the outbreak of World War I to the present. Topics vary.

Examination of the formation of Kievan Rus, the Mongol invasion, the emergence of Muscovite autocracy, religious schism, westernization in the seventeenth century and under Peter I, the establishment of serfdom, the problem of Empire, Catherine II and Alexander I. Notes: This course is crosslisted with HIST 421. Credit at the 600-level requires additional work.

Analysis of conservative modernization under Nicholas I, the birth of the intelligentsia, the Great Reforms, industrialization, revolution, the establishment of the Soviet State, stagnation under Brezhnev, Perestroika under Gorbatchev, and the dissolution of the USSR. Notes: This course is crosslisted with HIST 422. Credit at the 600-level requires additional work.

Analysis and interpretation of the institutional, social, economic, political and cultural development of the German states. Notes: This course is crosslisted with HIST 423A. Credit at the 600-level requires additional work.

Analysis and interpretation of the institutional, social, economic, political and cultural development of the German to the present. Notes: This course is crosslisted with HIST 423B. Credit at the 600-level requires additional work.

Study of the relationship between religion and secular culture in the American experience from the colonial era to the present. Notes: This course is crosslisted with HIST 424. Credit at the 600-level requires additional work.

History of the Nevada counties of Nye, Esmeralda, Mineral, Lincoln, and Clark since the arrival of the European. The case of southern Nevada used to illustrate techniques for the study of local history in general. Notes: This course is crosslisted with HIST 425. Credit at the 600-level requires additional work.

Analyzes the relationships between the history of the American West, movie westerns, and the cultural climate of the United States after 1945. Six credits of history. Notes: This course is crosslisted with HIST 426. Credit at the 600-level requires additional work.

Examines the growth and influence of business upon American history from colonial times to the present. Includes the role played by business groups in the American Revolution, adoption of the U.S. Constitution, westward expansion, the Civil War, World War II, and the development of major American cities. Notes: This course is crosslisted with HIST 428. Credit at the 600-level requires additional work.

Examines the history of American working men and women from the founding of the American colonies to the present. Emphasis placed on significant events, institutions, and the ordinary lives of laborers themselves, all of which are viewed against the backdrop of an evolving capitalist economic system. Notes: This course is crosslisted with HIST 429. Credit at the 600-level requires additional work.

Examines the history of women in the United States from the period of European contact to Reconstruction. Examines women’s changing roles in the family, work force, politics, and social movements. Examines the historical experience of European colonists, Native Americans, African Americans, and immigrants. Same as: WMST 432A Notes: This course is crosslisted with HIST 432A. Credit at the 600-level requires additional work.

Women’s relationship to the economy and to political movements; changing ideals of womanhood; the demographic and sexual revolutions transforming family life and gender roles; and class, race, ethnic, and regional variations in female experience. Same as: WMST 432B Notes: This course is crosslisted with HIST 432B. Credit at the 600-level requires additional work.

Topical approach to Black history that seeks to illuminate grand themes such as DuBois’ notion of “double-consciousness,” the dilemma of being both Black and American. Explores in depth such topics as religion, family, slavery, urban life, education, labor, culture, and politics. Notes: May be repeated to a maximum of 9 credits.

This course is crosslisted with HIST 433. Credit at the 600-level requires additional work.

An examination of African-American history to 1877 that considers roles of free and enslaved blacks in the shaping of America’s social, cultural, economic, and political developments. Themes include the slave trade, creation of race and slavery, gender, and African influences on both slave and American culture. Notes: This course is crosslisted with HIST 433B. Credit at the 600-level requires additional work.

Examination of the emergence of African-Americans from the aftermath of the Civil War to present. Themes include the restrictions imposed by Jim Crow, segregation beyond the South, the Civil Rights movement, inner city rebellions and the new Black cultural movement. Notes: This course is crosslisted with HIST 433C. Credit at the 600-level requires additional work.

Growth of cities from colonial times to the present. Topics include urbanization, suburbanization, transportation innovations, crime, housing, and racial conflicts. Special emphasis given to the role of the city in American history. Notes: This course is crosslisted with HIST 434. Credit at the 600-level requires additional work.

Investigation of the radical impact of industrial modernity upon the European metropolis from the eighteenth century onwards. Focuses on cultural, social, technological, and architectural developments in the major European cities, such as London, Paris, Vienna, and Berlin. Notes: This course is crosslisted with HIST 434A. Credit at the 600-level requires additional work.

Renaissance to the Enlightenment, 1450-1775, including humanism, republicanism, Protestantism, science, liberalism, and early economic thinking. Notes: This course is crosslisted with HIST 435A. Credit at the 600-level requires additional work.

Analysis and interpretation of European attitudes and ideas since the Enlightenment, 1775-present, including Idealism, Marxism, cultural individualism, psychoanalysis, existentialism, and structuralism. Notes: This course is crosslisted with HIST 435B. Credit at the 600-level requires additional work.
HIST 635C - Topics in European Cultural and Intellectual History
Credit 3
In-depth study of specific aspects of early modern and modern European cultural and intellectual history. Same as: HIST 435C

HIST 636 - Nazi Holocaust from the American Perspective
Credit 0
Genocidal aspects of the Nazi Era in Germany. Special emphasis on why Americans have become so "Holocaust conscious," and on the impact of the Holocaust on international Jewry. Notes: This course is crosslisted with HIST 436. Credit at the 600-level requires additional work.

HIST 637 - Family History
Credit 3
Study of how world wars, the Great Depression, and other historical events have affected American families and communities in the twentieth century. Notes: This course is crosslisted with HIST 437. Credit at the 600-level requires additional work.

HIST 638A - American Indian History to 1851
Credit 3
Examination of Indian peoples from early times to 1851. Includes Indian-white relations, U.S. Indian policy, concentration, assimilation, removal, and resistance to westward expansion. Notes: This course is crosslisted with HIST 438A. Credit at the 600-level requires additional work.

HIST 638B - Ethnohistory of Native Americans Since 1851
Credit 3
Examination of Indian peoples from 1851 to the present. Focuses on impact of Indian culture on Indian-white relations, allotment, reservation life, Indian Reorganization Act, Termination, struggle for civil rights, self-determination, and economic development (gaming). Notes: This course is crosslisted with HIST 438B. Credit at the 600-level requires additional work.

HIST 638C - Topics in American Indian History
Credit 3
In-depth study of specific aspects of American Indian History. Notes: This course is crosslisted with HIST 438C. Credit at the 600-level requires additional work. Prerequisites: Six credits of history.

HIST 640 - Regions in American Indian History
Credit 3
Examination of the history and culture of Indian peoples in one or more of the following regions: Southwest, Pacific Northwest, Great Basin, Great Plains, Northeast, and Southeast. Notes: This course is crosslisted with HIST 440. Credit at the 600-level requires additional work.

HIST 641 - American Environmental History
Credit 3
Explores the relationship between human beings and the physical environment on the North American continent. Examines the way in which different cultural groups have used and transformed the continent. Examines the ebb and flow of consciousness about the environment from its roots in the nineteenth century to the rise of environmentalism in the twentieth century. Notes: This course is crosslisted with HIST 441. Credit at the 600-level requires additional work.

HIST 643 - Comparative Environmental History
Credit 3
Provides a comparative context for the study of global environmental history. Analyzes different societies, from the Sumerians to modern cultures, to discern their different uses of land, water, and other natural resources, as well as the ways in which social institutions applied to the physical environment over the ages. Notes: This course is crosslisted with HIST 443. Credit at the 600-level requires additional work.

HIST 643A - Historic Preservation
Credit 3
Examines the history and theory of the historic preservation movement in the United States, the legal basis for preservation of the built environment, and the practical methodology of historic preservation. Notes: This course is crosslisted with HIST 443A. Credit at the 600-level requires additional work.

HIST 644 - Latinos in the American West
Credit 3
Analysis of the history of Latinos beginning with the Spanish exploration of the New World, the resulting cultural encounters and emergence of a mixed frontier populace, and the present social, economic, and cultural roles of Latinos in American society. Notes: This course is crosslisted with HIST 444. Credit at the 600-level requires additional work.

HIST 645 - Cultural History of Modern Russia
Credit 3
Social conscience in Russian literature from Pushkin to Solzhenitsyn, populist realism in art and politics, cultural diversity of the Silver Age, and the effects of Socialist Realism. Notes: This course is crosslisted with HIST 445. Credit at the 600-level requires additional work.

HIST 646 - History of the Russian Film
Credit 3
Soviet cinema from the revolutionary films and pathbreaking theories of the 1920s (Eisenstein, Pudovkin, Vertov, Dovzhenko, and Kuleshov), through the constrictions of Socialist Realism, to the revival of a proud tradition in the decades since Stalin. Emphasis on Russian cultural traditions, contemporary historical context, and the demands of ideology. Same as: FIS 446 Notes: This course is crosslisted with HIST 446. Credit at the 600-level requires additional work.

HIST 647 - Revolutionary Russia 1905-1921
Credit 3
Detailed analysis of the crisis of autocracy, the First World War, the Bolshevik seizures of power, and the early years of the proletarian dictatorship. Examines the experiment in parliamentary politics, the emerging nationalist movements in the empire's periphery, the institutionalization and extension of violence during the World War, revolutionary and Marxist ideologies, peasant revolt, and the reasons for Bolshevik victory during the civil war. Notes: This course is crosslisted with HIST 447. Credit at the 600-level requires additional work.

HIST 648 - Asian American History
Credit 3
Examines the Asian American experience from the nineteenth century until the present with an emphasis on activities in the American West. Notes: This course is crosslisted with HIST 448. Credit at the 600-level requires additional work.

HIST 649A - History of Japan to 1800
Credit 3
Analysis and interpretation of Japanese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Notes: This course is crosslisted with HIST 449A. Credit at the 600-level requires additional work.

HIST 649B - History of Japan since 1800
Credit 3
Analysis and interpretation of Japanese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Notes: This course is crosslisted with HIST 449B. Credit at the 600-level requires additional work.

HIST 649C - Topics in Japanese History
Credit 3
In-depth study of selected aspects of Japanese history. Notes: This course is crosslisted with HIST 449C. Credit at the 600-level requires additional work. May be repeated to a maximum of 6 credits.

HIST 652A - Popular Culture in Nineteenth-Century America
Credit 3
History of popular culture in the United States. Concept of culture scrutinized. Key themes include the development of market culture, the creation of an American aesthetic, sensationalism of public life, and creation of a cultural hierarchy. Notes: This course is crosslisted with HIST 452A. Credit at the 600-level requires additional work.

HIST 652B - Popular Culture in Twentieth-Century America
Credit 3
History of popular culture in the recent United States. Key themes include the growth of mass media and mass culture, debates over the merits and effects of popular culture, and the relationship of so-called highbrow and lowbrow culture. Notes: This course is crosslisted with HIST 452B. Credit at the 600-level requires additional work.
HIST 653 - Women in Politics Credits 3
History of women in U.S. politics beginning with the suffrage movement and concluding with the most recent election. Topics include women as candidates, in office, as administrators, as lobbyists and as political activists. Concludes with a section on so-called “women’s issues,” choice, domestic violence, child support, day care, women’s health and current issues. Same as: PSC 401J & WMST 401J Notes: This course is crosslisted with HIST 455A. Credit at the 600-level requires additional work.

HIST 655A - History of China to 1800 Credits 3
Analysis and interpretation of Chinese history to 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Notes: This course is crosslisted with HIST 455A. Credit at the 600-level requires additional work.

HIST 655B - History of China since 1800 Credits 3
Analysis and interpretation of Chinese history since 1800. Examines political and intellectual leaders and events, social and cultural developments, economic forces and foreign relations. Notes: This course is crosslisted with HIST 455B. Credit at the 600-level requires additional work.

HIST 655C - Topics in Modern China Credits 3
In-depth study of aspects of modern China. Each year a different theme, such as “Reform, Rebellion, and Revolution” or “Twentieth-Century China.” Notes: This course is crosslisted with HIST 455C. Credit at the 600-level requires additional work.

HIST 656 - Topics in Ancient History Credits 3
Explores varied topics in the ancient Greco-Roman world from a historical perspective. Topics may include religious ideas and practices; class, status, and cultural identity; or the relations of literary production and culture. Develops skills of analysis, interpretation, and exposition of significant historical fields. Notes: This course is crosslisted with HIST 456. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

HIST 657 - Ancient Greek Civilization Credits 3
History of Greece and Hellenic civilization from the end of prehistoric times until the Roman conquest. Notes: This course is crosslisted with HIST 457. Credit at the 600-level requires additional work.

HIST 658 - Roman Civilization Credits 3
Analyzes all aspects of Roman history from earliest times to the late antique period, with central attention to the politics and society of the later Republic and how Rome became the monarchy of the Caesars. Notes: This course is crosslisted with HIST 458. Credit at the 600-level requires additional work.

HIST 659 - Medieval Civilization Credits 3
The department also offers a large number of undergraduate courses which are open to graduate students at the 600-level. Among these are courses which reflect the specializations of our faculty. Graduate students enrolled in such courses will ordinarily be expected to complete a special project. A full description of this course may be found in the Undergraduate catalog under the corresponding 400 number.

HIST 659A - Topics in Medieval History Credits 3
Examines selected topics in medieval history in depth and detail. Topics may include the Crusades; the family, marriage and sexuality; the Middle Ages in film and fact; and science, technology and magic. Notes: This course is crosslisted with HIST 459A. Credit at the 600-level requires additional work.

HIST 660A - The Renaissance Credits 3
Development of new forms of art, culture, religious expression, political thought, urban organization, economic practice, and family structure from the end of the Middle Ages to the beginnings of the modern era. Notes: This course is crosslisted with HIST 460A. Credit at the 600-level requires additional work.

HIST 660B - The Reformation Credits 3
Europe from the emergence of Protestantism to the outbreak of the Thirty Years War. Breakup of the medieval ideal of a united Christendom, mainstream and radical Protestantism, impact of religious warfare, changing attitudes toward high and popular culture. Notes: This course is crosslisted with HIST 460B. Credit at the 600-level requires additional work.

HIST 661 - Europe in the 18th Century Credits 3
Advanced study of eighteenth-century European cultural, intellectual, social and political history. Includes Enlightenment ideas (“progress, the “pursuit of happiness” and the quest for “virtue”); constitutional and absolutist government; commercial capitalism; changes to the traditional social order; nationalism and patriotism; religious toleration; and the advent of print culture. Notes: This course is crosslisted with HIST 461. Credit at the 600-level requires additional work.

HIST 661B - Early Modern Europe: 1550-1789 Credits 3
Development of the economic, political, social, and cultural patterns of Europe during the Age of Reason and the Age of Enlightenment. Notes: This course is crosslisted with HIST 461B. Credit at the 600-level requires additional work.

HIST 662 - The French Revolution and Napoleon Credits 3
Study of France during the last stages of the old regime; the revolution; and the rise and fall of Napoleon Bonaparte. Notes: This course is crosslisted with HIST 462. Credit at the 600-level requires additional work.

HIST 663 - Europe: 1815-1914 Credits 3
Detailed study of the development of the economic, political, social, and cultural patterns of Europe from Waterloo to the outbreak of World War I. Notes: This course is crosslisted with HIST 463. Credit at the 600-level requires additional work.

HIST 664 - Europe: 1914 to the Present Credits 3
Detailed analysis of the First World War, the Versailles settlement, the Russian revolution, the emergence of Fascism and Nazism, the Second World War, the Cold War, European reconstruction, the Eastern European Revolutions, the development of consumer societies, European economic integration, the end of communism, and the wars of Yugoslav succession. Notes: This course is crosslisted with HIST 464. Credit at the 600-level requires additional work.

HIST 666 - European Diplomatic History, 1815-Present Credits 3
Examines selected topics in modern European history in depth and detail. Notes: May be repeated to a maximum of six credits. This course is crosslisted with HIST 466A. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

HIST 666 - European Diplomatic History, 1815-Present Credits 3
Examines politics and diplomacy in Europe from the Congress of Vienna to the present. Topics include the “Spring of Nations” in 1848, the unification of Germany in 1871, the outbreaks of World War I, World War II, and the Cold War. Notes: This course is crosslisted with HIST 466. Credit at the 600-level requires additional work.

HIST 668 - History of Science Credits 3
Study of the major scientific and technological advances since medieval times and their impact on society. Presented in a non-technical manner. Notes: This course is crosslisted with HIST 468. Credit at the 600-level requires additional work.

HIST 670 - History of Mexico Credits 3
Study of the development of Mexican civilization, examining the Maya and Aztec background and emphasizing the Spanish conquest, colonial institutions, the independence movement and the problems of nationhood, the Mexican Revolution of 1910, and contemporary issues. Notes: This course is crosslisted with HIST 470. Credit at the 600-level requires additional work.

HIST 671 - Revolution and Reaction in Contemporary Latin America Credits 3
Study of major political movements, leaders, and trends in Latin America from the Cuban Revolution to the present day. Notes: This course is crosslisted with HIST 471. Credit at the 600-level requires additional work.
HIST 672 - History of Brazil Credits 3
Development of Brazil from the beginning of Portuguese colonization to the present, with emphasis on colonial institutions, territorial expansion, slavery and race relations, political evolution, and recent social and economic problems. Notes: This course is crosslisted with HIST 472. Credit at the 600-level requires additional work.

HIST 673 - History of the Andean Region Credits 3
Central and southern Andes from the Inca period to the present: the Inca Empire, the Spanish conquest, colonial society and institutions, the independence movements, and the republics of Peru, Bolivia, and Chile, with emphasis on reform and revolution in the twentieth century. Notes: This course is crosslisted with HIST 473. Credit at the 600-level requires additional work.

HIST 674 - Latin American Ethnic Studies Credits 3
Cultural study of pre-Columbian and early colonial institutions in Mesoamerica and the Andes with emphasis on the information gathered from indigenous chronicles and early documents. Notes: This course is crosslisted with HIST 474. Credit at the 600-level requires additional work.

HIST 675 - Modern Latin American Film Credits 3
Cinematic treatments of modern Latin American socio-historical issues. Topics include industrialization, dictatorship and repression, democratization, and minority rights. Analysis of the Cinema Novo (Cinema Nueva) and post-Cinema Novo genres. Emphasis on Brazilian, Argentine, and Cuban films of the 1970s and 1980s. Same as: FIS 475 Notes: This course is crosslisted with HIST 475. Credit at the 600-level requires additional work.

HIST 676 - The Mexican Revolution Credits 3
Study of the origins, major events and personalities, and aftermath of the Mexican Revolution of 1910, tracing Mexico's political development to modern times. Notes: This course is crosslisted with HIST 476. Credit at the 600-level requires additional work.

HIST 677B - Topics in African History Credits 3
Topical and general courses on Africa, including the continent and diaspora, regions, peoples, and eras. Notes: May be repeated to a maximum of six credits. Grading: Letter grade Prerequisites: Graduate standing in history or instructors approval.

HIST 678A - Islamic and Middle Eastern History to 1750 Credits 3
An examination of the rise and development of Islamic civilization from its inception in the seventh century up into the early modern period. It presents the diversity of Islamic civilization as it evolved over time, as well as the historical contexts of both the Islamic heartland and its surrounding regions. Notes: This course is crosslisted with HIST 478A. Credit at the 600-level requires additional work.

HIST 678B - Islamic and Middle Eastern History since 1750 Credits 3
An examination of the Middle East from the 18th century to recent times. The predominant focus will be on how the indigenous leadership and peoples of the region grappled with the challenges posed by the advent of the modern world. Notes: This course is crosslisted with HIST 478B. Credit at the 600-level requires additional work.

HIST 679 - History of the British Empire Credits 3
Explores the history of the British Empire from its beginings to decolonization and analyzes the social, cultural, and intellectual foundations of imperial Britain. The emergence of Great Britain as an imperial power considered within the larger context of concerns about race, class, and gender. Notes: This course is crosslisted with HIST 479. Credit at the 600-level requires additional work.

HIST 679A - West Africa and the Making of the Atlantic World Credits 3
Explores how West Africa contributed to the cultural and economic development of the Atlantic world and how European contact and interaction contributed to West Africa's development and underdevelopment. Notes: This course is crosslisted with HIST 479A. Credit at the 600-level requires additional work.

HIST 682 - Music History I Credits 3
The department also offers a large number of undergraduate courses which are open to graduate students at the 600-level. Among these are courses which reflect the specializations of our faculty. Graduate students enrolled in such courses will ordinarily be expected to complete a special project. A full description of this course may be found in the Undergraduate catalog under the corresponding 400 number.

HIST 683 - Music History II Credits 3
The department also offers a large number of undergraduate courses which are open to graduate students at the 600-level. Among these are courses which reflect the specializations of our faculty. Graduate students enrolled in such courses will ordinarily be expected to complete a special project. A full description of this course may be found in the Undergraduate catalog under the corresponding 400 number.

HIST 683A - Urban Destruction and Reconstruction Credits 3
Study of populations, cityscapes, and infrastructures in cities wounded by acts of warfare, terrorism, and natural disasters, as well as by social, environmental, and economic decline. Analyzes urban renewal and reconstruction efforts and counter-terrorism policies and their effect on the strategic, geopolitical role of cities. Notes: This course is crosslisted with HIST 483A. Credit at the 600-level requires additional work.

HIST 685 - Oral History Credits 3
Focuses on the techniques of oral history and integration of the material into a historical paper. Topics vary. Notes: This course is crosslisted with HIST 485. Credit at the 600-level requires additional work.

HIST 686 - Military History of the United States Credits 3
The department also offers a large number of undergraduate courses which are open to graduate students at the 600-level. Among these are courses which reflect the specializations of our faculty. Graduate students enrolled in such courses will ordinarily be expected to complete a special project. A full description of this course may be found in the Undergraduate catalog under the corresponding 400 number.

HIST 687 - Topics in American Studies Credits 3
Interdisciplinary analysis of selected topics in American history, literature, art, science and material culture. Topics vary from semester to semester. Notes: This course is crosslisted with HIST 487R. Credit at the 600-level requires additional work.

HIST 689 - Comparative History Credits 3
Study of a historical problem by examining its development in different countries and epochs. Possible topics include slavery, industrialization, and ideology. Notes: This course is crosslisted with HIST 489. Credit at the 600-level requires additional work.

HIST 691A - Women in the Ancient World Credits 3
Explores women's varied roles in the ancient Near East, Greece and Rome. Examination of women's participation in religion, politics and the family as well as representations of women in myth, art, philosophy, medicine, and literature. Notes: This course is crosslisted with HIST 491A. Credit at the 600-level requires additional work.

HIST 691B - Women in Medieval Culture and Society Credits 3
Explores medieval women's experiences as religious leaders, workers, queens and ladies of the manor, and as mothers, wives and daughters. Special attention will be paid to women's voices expressed in letters and autobiography, literature, historical records and art. Notes: This course is crosslisted with HIST 491B. Credit at the 600-level requires additional work.

HIST 692A - Women In Early Modern Europe Credits 3
Explores the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women and work, women's participation in the creation of culture and religion, and the European witch-hunts. Notes: This course is crosslisted with HIST 492A. Credit at the 600-level requires additional work.
HIST 692B - Woman's Role in European History: 1750-1970 Credits 3
Analysis and interpretation of women's roles in the modern world. Topics include the emergence of feminism and the international women's movement; the impact of industrialization on work and the family; constructions of gender, sexuality and motherhood. Notes: This course is crosslisted with HIST 492B. Credit at the 600-level requires additional work.

HIST 695 - Special Topics in Gender and History Credits 3
Study of a selected topic concerning gender and history. Notes: This course is crosslisted with HIST 495. Credit at the 600-level requires additional work.

HIST 696 - Philosophy of History Credits 3
Theory, epistemology, and methodology of historiography, dealing with such questions as the nature, aims, and methods of history; its status as a science; the legitimacy of the so-called speculative philosophy of history; and the structure of historical knowledge. Same as: PHIL 437 Notes: This course is crosslisted with HIST 496. Credit at the 600-level requires additional work.

HIST 698 - Advanced Historical Studies Credits 1-4
Study of the historical origins and aspects of selected contemporary issues. Notes: This course is crosslisted with HIST 498. Credit at the 600-level requires additional work.

HIST 710 - The Professional Historian Credits 1
Provides information and workshops for History graduate students on grant writing, conference paper abstract writing, job applications, research grant applications, etc. to develop professional skills beyond coursework. Discussion of aspects of the historical profession.

HIST 724 - Colloquium in American Cultural/Intellectual History Credits 3
Specific topic or theme announced each semester and related bibliography provided. Group sessions critique this literature and evaluate historiographical status of authors. Notes: Several short papers, designed to give training in critical analysis, required. May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 725 - Seminar in American Cultural/Intellectual History Credits 4
Topic to be announced each semester. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 726 - Colloquium in American Western History Credits 3
Specific topic or theme announced each semester and related bibliography provided. Group sessions critique literature and evaluate the historiographical status of authors. Several short papers, designed to give training in critical analysis, required. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 727 - Research Seminar in American Western History Credits 4
Topic to be announced each semester. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Graduate standing.

HIST 728 - Colloquium in European Cultural/Intellectual History Credits 3
Analysis of the historical literature on a selected topic in European intellectual/cultural history. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 729 - Research Seminar in European Cultural/Intellectual History Credits 4
Topic to be announced each semester. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 730 - Colloquium in American History Credits 3
Specific topic or theme to be announced and related bibliography provided. Course focuses on critical analysis and historiographical evaluation of the literature. a) Early America. b) Nineteenth Century. c) Twentieth Century. d) Diplomatic. e) Economic. f) Gender. h) Legal. i) Political j) Race. k) Religion l) Social. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 731 - Research Seminar in American History Credits 4
Topic to be announced each semester. a) Early America. b) Nineteenth Century. c) Twentieth Century. d) Diplomatic. e) Economic. f) Gender. h) Legal. i) Political j) Race. k) Religion l) Social. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 732 - Colloquium in European History Credits 3
Analysis of the historical literature on a selected topic in European history. a) England. b) The French Revolution and Napoleon. c) Modern Russia. d) Germany. c) Medieval. f) Africa since 1945. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 733 - Research Seminar in European History Credits 4
Topic to be announced each semester. a) England. b) The French Revolution and Napoleon. c) Modern Russia. d) Germany. c) Medieval. f) Europe since 1945. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 734 - Colloquium in Modern Asian History Credits 3
Analysis of the historical literature on a selected topic in modern Asia. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 735 - Research Seminar in Modern Asian History Credits 4
Topic to be announced. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 736 - Colloquium in Modern Latin American History Credits 3
Analysis of the historical literature on a selected topic in modern Latin America. Topics to be announced. Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 737 - Research Seminar in Modern Latin American History Credits 4
Topics to be announced. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing.

HIST 738 - Colloquium in African and Middle Eastern History Credits 3
Analysis of the historical literature on a selected topic in Africa and/or the Middle East.

HIST 739 - Research Seminar in African and Middle Eastern History Credits 4
Topic to be announced. Note: May be repeated to a maximum of twelve credits.

HIST 740 - Historiography Credits 3
Lectures, readings, and discussions on the history of historical thought. a) United States-Domestic. b) Europe. c) Modern Asia. d) Modern Latin America. e) United States- diplomatic. f) American West. g) United States (cultural/intellectual). h) European (cultural/intellectual). Notes: May be repeated to a maximum of nine credits. Prerequisites: Graduate standing.

HIST 741 - Colloquium in Transnational History Credits 3
Specific topic or theme to be announced and related bibliography provided. Course focuses on critical analysis and historiographical evaluation of the literature. Notes: May be repeated to a maximum of 9 credits. Prerequisites: Graduate standing

HIST 742 - Seminar in Transnational History Credits 4
Topic to be announced each semester. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Graduate standing.

HIST 748 - History and Policy Credits 3
Interdisciplinary historical analysis of American policy formation and failed versus workable policy ideas. Areas of investigation include policy studies in fields such as labor, urban development, minorities and diplomacy. Prerequisites: Graduate standing.

HIST 749 - Colloquium in Public History Credits 3
Practical as well as theoretical introduction to the techniques, methodologies and practices of historians in non-academic settings, including historic preservation, museums, oral history, historical sites, government agencies. Prerequisites: Graduate standing.
HIST 750 - Methods for the Study of Public History  Credits 3
Study of methods emphasizing those historical techniques and auxiliary sciences which are most appropriate for the study of public history. Prerequisites: Graduate standing.

HIST 751 - Museums and American Culture  Credits 3
Theoretical and practical introduction to issues involved in history museums. Evolving role of museums in American society; organizational, ethical, and interpretive issues; the tension between power and the production of knowledge and memory. Emphasis on curatorial practice including researching and interpreting material culture. Prerequisites: Graduate standing.

HIST 752 - Modern Archives: Theory and Methodology  Credits 3
Introduction to theoretical principles, methodologies and processing of archives and manuscripts, institutional programs that care for them, and professional community supporting this work. For students interested in the practice of public history in a variety of historical agencies or organizations. Prerequisites: Graduate standing.

HIST 754 - Topics in Public History  Credits 3
Practical and theoretical course exploring the varieties of public history. Prerequisites: Graduate standing.

HIST 760 - Advanced Studies in History  Credits 1 – 3
Supervised readings on special topics selected in consultation with a history instructor. Notes: May be repeated to a maximum of six credits, unless otherwise approved by the department. Prerequisites: Graduate standing.

HIST 761 - Doctoral Independent Study  Credits 1 – 3
Supervised readings on special topics selected in consultation with a history instructor. Notes: May be repeated to a maximum of twelve credits, unless otherwise approved by the department. Prerequisites: Graduate standing.

HIST 788 - Comprehensive Exam Preparation  Credits 3
This course organizes the preparation process for comprehensive exams. A student, in conjunction with one of the members of his/her advisory committee, will follow a rigorous schedule of reading, question preparation, and preparatory writing.

HIST 789 - Dissertation Prospectus  Credits 3
This course organizes the preparation and defense of the dissertation prospectus. The student, in conjunction with members of his/her advisory committee, will follow a rigorous schedule of research and writing to prepare the prospectus for the prospectus colloquium.

HIST 790 - Thesis  Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated, but only six credits applied to the student's program. Grading: S/F grading only. Prerequisites: Graduate standing.

HIST 790A - Materials for Teaching History  Credits 3
Capstone course for the Master of Arts in Teaching History co-taught by History and Curriculum and Instruction faculty. Builds on historical content, original research and pedagogical skills geared to the creation of middle and high school history classroom units. Prerequisites: 700-level HIST colloquium and 700-level HIST research seminar.

HIST 791 - Dissertation  Credits 3 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated, but only 12 credits applied to the student’s program. Grading: S/F grading only. Prerequisites: Graduate standing.

HIST 795 - Internship in Public History  Credits 3
Supervised internship is an integral part of the Public History track. Internships provide students with practical insights into potential historical employment. Private sector or institutional supervisors provide mentoring relationships and introduce students to the professional networks common to the public historian’s work environment. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing.

---

**Philosophy**

Most disciplines have their origins in philosophy, and philosophy still underlies them all. Nevertheless, certain questions are enduringly philosophical — peculiarly fundamental questions concerning the ultimate nature of values, knowledge, and reality. Philosophy thus investigates general topics of human interest: morality and the good life, law and the political life, God and the sacred, good and bad reasoning, evidence and discovery, art and the beautiful. Studying philosophy requires learning how to listen and how to discuss; it involves sifting through ideas and articulating thoughts in ways that others can follow. It is little wonder, therefore, that not only is a degree in philosophy valuable in itself, but it is also widely recognized as an excellent preparation for careers in academics, law, medicine, and even business.

*David Beisecker, Ph.D., Chair*

**Philosophy Faculty**

**Chair**

Beisecker, David - Full Graduate Faculty Associate Professor; B.A., Washington University; Ph.D., University of Pittsburgh.

**Graduate Faculty**

Dove, Ian - Full Graduate Faculty Associate Professor.

Forman, David - Full Graduate Faculty Associate Professor; Ph.D., University of Chicago.

Janssen, Greg - Associate Graduate Faculty Lecturer/Faculty-in-Residence.

Jones, Todd - Full Graduate Faculty Professor.

Lindland, Erik - Associate Graduate Faculty Lecturer/Faculty-in-Residence.

Ramsey, William - Full Graduate Faculty Associate Professor.

Schollmeier, Paul - Full Graduate Faculty Professor; B.A., University of Chicago; M.A., University of Chicago; Ph.D., University of Chicago.

Woodbridge, James - Full Graduate Faculty Associate Professor.

Professor Emeriti

Finochio, Maurice Emeritus Professor.

Rosenbaum, Stephen Emeritus Professor.

---

---

---
PHIL 601 - Ancient Philosophy  
Philosophy from the pre-Socratics to Plotinus, including the Sophists, Plato, Aristotle, the Epicureans, Stoics, Skeptics, and early Christian writers. Notes: This course is crosslisted with PHIL 401. Credit at the 600-level requires additional work.

PHIL 603 - Early Modern Philosophy  
Renaissance and early modern philosophy from the Italian Renaissance to Kant, including such figures as Leonardo, Pico, Erasmus, Luther, Montaigne, Descartes, Bacon, Hobbes, Spinoza, Locke, Leibniz, Vico, Berkeley, Hume, and Kant. Notes: This course is crosslisted with PHIL 403. Credit at the 600-level requires additional work.

PHIL 604 - 19th Century Philosophy  
Study of the major philosophers and philosophical currents of the nineteenth century introduced first by Kant through Hegel's absolute idealism; other important currents, including historical materialism (Marx), positivism (Comte), utilitarianism (Bentham, Mill), and pragmatism (C.S. Peirce). Notes: This course is crosslisted with PHIL 404. Credit at the 600-level requires additional work.

PHIL 605 - Contemporary Philosophy  
Study of the movements of twentieth-century thought: Vitalism, neo-Kantianism, dialectical materialism, phenomenology, existentialism, neopositivism, analysis, neo-Thomism, and American naturalism and pragmatism. Notes: This course is crosslisted with PHIL 405. Credit at the 600-level requires additional work.

PHIL 606 - American Philosophy  
Development of philosophy in America from the Transcendentalists and the St. Louis School through Royce, Peirce, James, Dewey, and Santayana. Notes: This course is crosslisted with PHIL 406. Credit at the 600-level requires additional work.

PHIL 615 - Kant  
Intensive study of one or more of Kant’s major writings; e.g., the Critique of Pure Reason, Critique of Practical Reason, Critique of Judgement, Metaphysics of Morals. Notes: This course is crosslisted with PHIL 415. Credit at the 600-level requires additional work.

PHIL 622 - Advanced Logic  
Study of formal logic through first-order logic with identity. Soundness, completeness, compactness and other metatheorems. Other topics may include computability, modal logic, epistemic logic, many-valued logic, the logic of conditionals, higher-order logics, infinitary logics or non-monotonic logics, number theory, Godel’s theorems, and the limits of logicism. Notes: This course is crosslisted with PHIL 422. Credit at the 600-level requires additional work.

PHIL 625 - Philosophy of Language  
Nature, acquisition and structure of language, including such philosophical issues as meaning, reference, speech acts and semantics. Notes: This course is crosslisted with PHIL 425. Credit at the 600-level requires additional work.

PHIL 630 - Philosophy of Science  
Study of the nature of scientific method and theory construction, and of causality, explanation, determinism, indeterminism, and probability. Notes: This course is crosslisted with PHIL 430. Credit at the 600-level requires additional work.

PHIL 631 - History of Scientific Thought  
Study of selected topics in the history of science, such as the impact of Euclidean geometry, the Copernican Revolution, the origin of modern science, the development of non-Euclidean geometry, the transition from classical to modern physics and the rise of evolutionary biology.

PHIL 634 - Philosophy Cognitive Science  
Critical assessment of interdisciplinary approaches to topics such as the philosophy of: innate knowledge, memory, mental representation, artificial intelligence, rationality, intentionality, and parallel computation. Notes: This course is crosslisted with PHIL 434. Credit at the 600-level requires additional work.
Political Science

The Department of Political Science offers a master’s degree program in political science and a doctoral degree program in political science. A description of each follows.

Master of Arts - Political Science

The Department of Political Science offers a general master of arts degree with concentrations in American politics (including public policy and public law), comparative politics, international relations, and political theory. Students can normally expect to complete the program in one-and-a-half to two years. The graduate program in political science is designed to prepare graduate students for doctoral studies, teaching positions at secondary schools and community colleges, or employment by government agencies, research centers, or private industry.

Doctor of Philosophy - Political Science

The Department of Political Science offers a general Ph.D. degree with concentrations in American politics (including public policy and public law), comparative politics, international relations, and political theory. The Ph.D. program is intended to prepare its graduates for careers in academic institutions, government (at all levels), and business and industry.

David Damore, Ph.D., Chair
Christian Jensen, Ph.D., Graduate Coordinator

Political Science Faculty

Chair
Damore, David - Full Graduate Faculty Professor; B.A., University of California, San Diego; M.A., University of Georgia; Ph.D., University of California, Davis. Rebel since 2000.

Graduate Coordinator
Jensen, Christian - Full Graduate Faculty Associate Professor; B.A., Lawrence University; M.A., American University; Ph.D., University of California, Los Angeles. Rebel since 2012.

Graduate Faculty
Bowers, Michael - Full Graduate Faculty Professor; B.A., Cameron University; M.A., Ph.D., University of Arizona. Rebel since 1984.

Bowling, Jeremy - Full Graduate Faculty Assistant Professor in Residence; B.A., M.A. Eastern Illinois University; Ph.D., University of Missouri, Columbia. Rebel since 2018.

Fott, David S. - Full Graduate Faculty Professor; B.A., Vanderbilt University; A.M., Ph.D., Harvard University. Rebel since 1992.

Gill, Rebecca - Full Graduate Faculty Associate Professor; B.A., James Madison College at Michigan State University; Ph.D., Michigan State University. Rebel since 2008.

Howard, Tiffiany - Full Graduate Faculty Associate Professor; B.A., Florida A&M University; M.A., Ph.D., University of Michigan, Ann Arbor. Rebel since 2008.

Kopalyan, Nerses - Full Graduate Faculty Assistant Professor in Residence; B.A., M.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2016.

Kuenzi, Michele - Full Graduate Faculty Associate Professor; B.A., Grinnell College; M.P.A., Wayne State University; Ph.D., Michigan State University. Rebel since 2004.

Landis, Steven - Full Graduate Faculty Assistant Professor; B.A., Eastern Michigan University; M.A., Ph.D., Pennsylvania State University. Rebel since 2017.

Lee, Daniel J. - Full Graduate Faculty Assistant Professor; B.S., University of Wisconsin at Madison; M.A., Ph.D., Duke University. Rebel since 2015.

Lutz, Mark - Full Graduate Faculty Associate Professor; B.A., University of Chicago; M.A., Ph.D., University of Toronto. Rebel since 2006.

Maltby, Elizabeth - Full Graduate Faculty Assistant Professor; B.A., Grinnell College; M.A., Ph.D., University of Iowa. Rebel since 2017.

Strand, Jonathan - Full Graduate Faculty Professor; B.S., University of Wisconsin-Platteville; M.A., Ph.D., University of Nebraska, Lincoln. Rebel since 2001.

Tamadonfar, Mehran - Full Graduate Faculty Professor; B.A., M.A., University of Tehran; Ph.D., University of Colorado, Boulder. Rebel since 1987.

Tuman, John - Full Graduate Faculty Professor; B.A., University of California, Berkeley; M.A., University of Chicago; Ph.D., University of California, Los Angeles. Rebel since 2001.

Wang, Austin – Full Graduate Faculty Assistant Professor; B.S., M.A., National Taiwan University; Ph.D., Duke University. Rebel since 2018.

Professors Emeriti
Jones, Gary L Emeritus Associate Professor; A.A., Long Beach City College; B.A., Long Beach State College; Ph.D., Claremont Graduate School. UNLV Emeritus 1969-2002.

Parker, Steven Emeritus Associate Professor; B.A., Assumption College; M.A., Ph.D., State University of New York, Albany. UNLV Emeritus 1979-2017.

Pirages, Dennis Emeritus Professor; B.A., State University of Iowa; Ph.D., Stanford University. UNLV Emeritus 2009-2016.

Simich, Jerry L Emeritus Associate Professor; B.A., California State University, Long Beach; Ph.D., University of California, Santa Barbara. UNLV Emeritus 1973-2008.

Titus, Dina Emeritus Professor; B.A., College of William and Mary; M.A., University of Georgia; Ph.D., Florida State University. UNLV 1977-2011.
Doctor of Philosophy - Political Science

Plan Description

The Department of Political Science offers a general Ph.D. degree with concentrations in American politics (including public law and public policy), comparative politics, international relations, and political theory.

The Ph.D. program is intended to prepare its graduates for careers in academic institutions, government (at all levels), and business and industry.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. The following department application materials must be uploaded into the online application:
   a. Graduate Record Examination (GRE) General Test scores
   b. Three letters of recommendation by recommendation providers (academic references preferred)
   c. A personal statement explaining why you want to enter the doctoral program
   d. A writing sample

2. Applicants must submit satisfactory Graduate Record Examination (GRE) General Test scores. The recommended score is a total of 160 on the verbal and 148 on the quantitative sections. We also pay attention to the analytical score. The applicant’s undergraduate record is examined in conjunction with the GRE scores. The former is weighed more heavily than the latter: an outstanding undergraduate record may well allow the admission of an applicant with GRE scores somewhat below the recommended level.

3. Applicants must possess a B.A. or equivalent from a regionally accredited institution with a minimum GPA of 3.30, or M.A. or equivalent from an accredited institution with a minimum GPA of 3.50. Under special circumstances the department may consider applicants with lower GPAs.

4. Applicants must have completed 12 credits of Political Science course work at the upper-division or graduate level combined. At the discretion of the department, students who lack such course work may be admitted on the condition that they remedy that deficiency.

5. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post - Bachelor’s American Politics Track

Total Credits Required: 60

Course Requirements

Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

American Politics Field Courses- 9
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law

Second Field – Credits: 9

Select one of the following second fields and complete three courses:

Second Field Comparative Politics
- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
- PSC 763 - European Politics
- PSC 764 - Latin American Politics
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics

Second Field International Relations

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be assigned by the Graduate College. Another outside member may be added at the department’s discretion.

6. Comprehensive written and oral examinations will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of American politics.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 2 Requirements: Post-Bachelor’s - Comparative Politics Track

Total Credits Required: 60

Course Requirements

Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

Comparative Courses – Credits: 9
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics
- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
• PSC 763 - European Politics
• PSC 764 - Latin American Politics

Second Field – Credits: 9
Select one of the following second fields and complete three courses:

Second Field American Politics
• PSC 713 - American National Government: Principles
• PSC 714 - American National Government: Structure and Processes
• PSC 719 - Advanced Studies in American Politics
• PSC 721 - Public Policy Process
• PSC 723 - Policy Analysis
• PSC 729 - Advanced Studies in Public Policy
• PSC 721 - Public Policy Process
• PSC 723 - Policy Analysis
• PSC 729 - Advanced Studies in Public Policy

Second Field International Relations
• PSC 741 - U.S. Foreign Policy
• PSC 746 - Middle East in World Affairs
• PSC 747 - Pacific Rim in World Affairs
• PSC 751 - International Political Economy
• PSC 754 - Global Governance
• PSC 755 - International Security
• PSC 759 - Advanced Studies in International Relations

Second Field Political Theory
• PSC 781 - Political Theory before 1500
• PSC 782R - Political Theory from 1500 to 1900
• PSC 783 - Political Theory since 1900
• PSC 789R - Special Topic: Advanced Studies in Political Theory

Elective Courses – Credits: 12
Complete 12 credits of 700-level Political Science courses, or other advisor-approved courses.

Dissertation – Credits: 12
• PSC 799 - Dissertation

Degree Requirements
1. A minimum of 60 credits beyond the B.A. must be completed.
2. A minimum grade point average of 3.00 is required for all course work.
3. Research Tool: The research tool can be fulfilled with one of three options: 1. Foreign Language: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted. The foreign language selected must be approved by the department as relevant for the student’s research. 2. Quantitative Methods: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research. 3. Qualitative Methods: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.
4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.
6. Comprehensive written and oral examinations will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.
7. The student will write the dissertation of original research and interpretation on a topic in the field of comparative politics.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 3 Requirements: Post-Bachelor’s - International Relations Track
Total Credits Required: 60

Course Requirements
Methods in Political Science Courses – Credits: 6
Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

**Proseminar Courses – Credits: 12**
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

**International Relations Field Courses – Credits: 9**
Complete three of the following courses:
- PSC 741 - U.S. Foreign Policy
- PSC 746 - Middle East in World Affairs
- PSC 747 - Pacific Rim in World Affairs
- PSC 751 - International Political Economy
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations

**Second Field – Credits: 9**
Select one of the following second fields and complete three courses:

**Second Field American Politics**
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law

**Second Field Comparative Politics**
- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
- PSC 763 - European Politics
- PSC 764 - Latin American Politics
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics

**Second Field Political Theory**
- PSC 781 - Political Theory before 1500

- PSC 782R - Political Theory from 1500 to 1900
- PSC 783 - Political Theory since 1900
- PSC 789R - Special Topic: Advanced Studies in Political Theory

**Elective Courses – Credits: 12**
Complete 12 credits of 700-level Political Science courses, or other advisor-approved courses.

**Dissertation – Credits: 12**
- PSC 799 - Dissertation

**Degree Requirements**
1. A minimum of 60 credits beyond the B.A. must be completed.
2. A minimum grade point average of 3.00 is required for all course work.
3. Research Tool: The research tool can be fulfilled with one of three options: 1. Foreign Language: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted. The foreign language selected must be approved by the department as relevant for the student’s research. 2. Quantitative Methods: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research. 3. Qualitative Methods: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.
4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.
6. Comprehensive written examination will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of he examinations will be determined by the student’s graduate coordinator.
7. The student will write the dissertation of original research and interpretation on a topic in the field of international relations.
Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 4 Requirements: Post - Bachelor’s Political Theory Track

Total Credits Required: 60

Course Requirements

Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

Political Theory Field Courses – Credits: 9
Complete three of the following courses:
- PSC 781 - Political Theory before 1500
- PSC 782R - Political Theory from 1500 to 1900
- PSC 783 - Political Theory since 1900
- PSC 789R - Special Topic: Advanced Studies in Political Theory

Second Field – Credits: 9
Select one of the following second fields and complete three courses:

Second Field American Politics
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law

Second Field Comparative Politics
- PSC 739 - Advanced Studies in Public Law
- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
- PSC 763 - European Politics
- PSC 764 - Latin American Politics
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics

Second Field International Relations
- PSC 741 - U.S. Foreign Policy
- PSC 746 - Middle East in World Affairs
- PSC 747 - Pacific Rim in World Affairs
- PSC 751 - International Political Economy
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations

Elective Courses – Credits: 12
Complete 12 credits of 700-level Political Science courses, or other advisor-approved courses.

Dissertation – Credits: 12
- PSC 799 - Dissertation

Degree Requirements

1. A minimum of 60 credits beyond the B.A. must be completed.

2. A minimum grade point average of 3.00 is required for all course work.

3. Research Tool: The research tool can be fulfilled with one of three options: 1. Foreign Language: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted. The foreign language selected must be approved by the department as relevant for the student’s research. 2. Quantitative Methods: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research. 3. Qualitative Methods: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.
4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.

5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.

6. Comprehensive written examination will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of political theory.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 5 Requirements: Post - Master’s American Politics Track

Total Credits Required: 48

Course Requirements

Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

American Politics Field Courses – Credits: 9
Complete three of the following courses:
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law
- PSC 779R - Advanced Studies in Comparative Politics

Second Field Courses – Credits: 9
Complete 3 of the following courses:

Second Field Comparative Politics
- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
- PSC 763 - European Politics
- PSC 764 - Latin American Politics
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics

Second Field International Relations
- PSC 741 - U.S. Foreign Policy
- PSC 746 - Middle East in World Affairs
- PSC 747 - Pacific Rim in World Affairs
- PSC 751 - International Political Economy
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations
- PSC 758 - Advanced Studies in Comparative Politics

Second Field Political Theory
- PSC 781 - Political Theory before 1500
- PSC 782R - Political Theory from 1500 to 1900
- PSC 783 - Political Theory since 1900
- PSC 789R - Special Topic: Advanced Studies in Political Theory

Dissertation – Credits: 12
- PSC 799 - Dissertation

Degree Requirements

1. A minimum of 48 credits beyond the M.A. must be completed.

2. A minimum grade point average of 3.00 is required for all course work.

3. Research Tool: The research tool can be fulfilled with one of three options:
1. **Foreign Language**: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.

2. **Quantitative Methods**: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research.

3. **Qualitative Methods**: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.

4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.

5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.

6. Comprehensive written and oral examinations will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of American politics.

**Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, a properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

**Subplan 6 Requirements: Post-Master’s - Comparative Politics Track**

**Total Credits Required**: 48

---

**Course Requirements**

**Methods in Political Science Courses – Credits: 6**

- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

**Proseminar Courses – Credits: 12**

- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

**Comparative Field Courses – Credits: 9**

- PSC 761 - Middle Eastern and North African Politics
- PSC 762 - African Politics
- PSC 763 - European Politics
- PSC 764 - Latin American Politics
- PSC 767 - Comparative Democratization
- PSC 775 - Comparative Political Behavior
- PSC 779R - Advanced Studies in Comparative Politics

**Second Field – Credits: 9**

Select one of the following second fields and complete three courses:

**Second Field American Politics**

- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law

**Second Field International Relations**

- PSC 741 - U.S. Foreign Policy
- PSC 746 - Middle East in World Affairs
- PSC 747 - Pacific Rim in World Affairs
- PSC 751 - International Political Economy
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations

**Second Field Political Theory**

- PSC 781 - Political Theory before 1500
- PSC 782R - Political Theory from 1500 to 1900

---

591  Graduate Catalog • College of Liberal Arts
Degree Requirements

1. A minimum of 48 credits beyond the M.A. must be completed and the department will determine the distribution of the 42 credits, based on the student’s transcripts of prior work.

2. A minimum grade point average of 3.00 is required for all course work.

3. Foreign language requirement: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B-” will be accepted.

4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.

5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.

6. Comprehensive written examination will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of comparative politics.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 7 Requirements: Post-Master’s - International Relations Track

Total Credits Required: 48

Course Requirements

Methods in Political Science Courses – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

International Relations Field Courses – Credits: 9
Complete three of the following courses:
- PSC 741 - U.S. Foreign Policy
- PSC 746 - Middle East in World Affairs
- PSC 747 - Pacific Rim in World Affairs
- PSC 751 - International Political Economy
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations

Second Field – Credits: 9
Select one of the following second fields and complete three courses:

Second Field American Politics
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law

Second Field Comparative Politics
- PSC 761 - Middle Eastern and North African Politics
• PSC 762 - African Politics
• PSC 763 - European Politics
• PSC 764 - Latin American Politics
• PSC 767 - Comparative Democratization
• PSC 775 - Comparative Political Behavior
• PSC 779R - Advanced Studies in Comparative Politics

Second Field Political Theory

• PSC 781 - Political Theory before 1500
• PSC 782R - Political Theory from 1500 to 1900
• PSC 783 - Political Theory since 1900
• PSC 789R - Special Topic: Advanced Studies in Political Theory

Dissertation – Credits: 12
• PSC 799 - Dissertation

Degree Requirements

1. A minimum of 48 credits beyond the M.A. must be completed.
2. A minimum grade point average of 3.00 is required for all course work.
3. Research Tool: The research tool can be fulfilled with one of three options: 1. Foreign Language: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted. The foreign language selected must be approved by the department as relevant for the student’s research. 2. Quantitative Methods: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research. 3. Qualitative Methods: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.
4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.
5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be appointed to represent the Graduate College. Another outside member may be added at the department’s discretion.
6. Comprehensive written examination will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of he examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of international relations.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 8 Requirements: Post - Master’s Political Theory Track

Total Credits Required: 48

Course Requirements

Methods in Political Science Courses – Credits: 6
• PSC 701 - Research Design and Methodology
• PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
• PSC 710R - Proseminar in American Politics
• PSC 740 - Proseminar in International Relations
• PSC 760R - Proseminar in Comparative Politics
• PSC 780R - Proseminar in Political Theory

Political Theory Field Courses – Credits: 9
Complete three of the following courses:
• PSC 781 - Political Theory before 1500
• PSC 782R - Political Theory from 1500 to 1900
• PSC 783 - Political Theory since 1900
• PSC 789R - Special Topic: Advanced Studies in Political Theory

Second Field – Credits: 9
Select one of the following second fields and complete three courses:

Second Field American Politics
• PSC 713 - American National Government: Principles
• PSC 714 - American National Government: Structure and Processes
• PSC 719 - Advanced Studies in American Politics
• PSC 721 - Public Policy Process
• PSC 723 - Policy Analysis
• PSC 729 - Advanced Studies in Public Policy
• PSC 732 - Constitutional Law
• PSC 739 - Advanced Studies in Public Law

Second Field Comparative Politics

• PSC 761 - Middle Eastern and North African Politics
• PSC 762 - African Politics
• PSC 763 - European Politics
• PSC 764 - Latin American Politics
• PSC 767 - Comparative Democratization
• PSC 775 - Comparative Political Behavior
• PSC 779R - Advanced Studies in Comparative Politics

Second Field International Relations

• PSC 741 - U.S. Foreign Policy
• PSC 746 - Middle East in World Affairs
• PSC 747 - Pacific Rim in World Affairs
• PSC 751 - International Political Economy
• PSC 754 - Global Governance
• PSC 755 - International Security
• PSC 759 - Advanced Studies in International Relations

Dissertation – Credits: 12
• PSC 799 - Dissertation

Degree Requirements

1. A minimum of 48 credits beyond the M.A. must be completed.

2. A minimum grade point average of 3.00 is required for all course work.

3. Research Tool: The research tool can be fulfilled with one of three options: 1. Foreign Language: Students must demonstrate knowledge of the equivalent of two years of a single foreign language, through either an examination or 12 credits of college-level course work. Those credits would not count toward the required total. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted. The foreign language selected must be approved by the department as relevant for the student’s research. 2. Quantitative Methods: With approval from the department, a student may demonstrate advanced quantitative methods necessary for his or her doctoral research. 3. Qualitative Methods: With approval from the department, a student may demonstrate advanced qualitative methods necessary for his or her doctoral research.

4. This requirement must be met prior to admission to candidacy. No grade below “B” will be accepted.

5. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member outside the department will be selected to represent the Graduate College. Another outside member may be added at the department’s discretion.

6. Comprehensive written and oral examinations will be taken during or following the semester in which the student completes required course work. They will be divided into two parts, corresponding to the student’s major fields. Within those fields the content of the examinations will be determined by the student’s graduate coordinator.

7. The student will write the dissertation of original research and interpretation on a topic in the field of political theory.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
Master of Arts - Political Science

Plan Description

The Department of Political Science offers a general Master of Arts degree with concentrations in American politics (including public policy and public law), comparative politics, international relations, and political theory. Students can normally expect to complete the program in from one-and-a-half to two years. The graduate program in political science is designed to prepare graduate students for doctoral studies, teaching positions at secondary schools and community colleges, or employment by government agencies, research centers, or private industry.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Post-Bachelor’s Professional Paper Track Admission Requirements:

1. The following department application materials must be uploaded into the online application:
   1. Graduate Record Examination (GRE) General Test scores
   2. Two letters of recommendation by recommendation providers (academic references preferred)
   3. A personal statement explaining why you want to enter the Master’s program

2. Applicants must possess a baccalaureate from a regionally accredited institution with a minimum GPA of 3.00.

3. Applicants must submit satisfactory GRE General Test scores. Minimum scores are 153 on the verbal and 144 on the quantitative sections of the exam; we also consider the analytical writing score. In unusual circumstances, students who do not meet the above criteria may still be admitted.

Integrated BA-MA Professional Paper Track Admission Requirements:

Accomplished UNLV undergraduates may apply for an Advanced Program Track after completion of 75 credit hours (Junior Standing). Students must meet all of the following criteria to be eligible for the Advanced Program Track:

1. 75 credit hours (Junior Standing)

2. Completion of at least 13 Political Science undergraduate credits including: PSC 101, PSC 200, PSC 211, PSC 231.

3. The student must have earned a GPA within the Political Science Major of at least 3.5.

4. Submission of two letters of recommendation from professors (at least one of which must be from a UNLV Political Science Department faculty member) and a completed Enrollment Request form to the Political Science department no less than two weeks before the beginning of the semester for which they would like to register for graduate courses.

5. Department chair AND Graduate coordinator’s approval OR Approval by the Graduate Studies Committee.

All admissions to Subplan 2 (Integrated BA-MA Professional Paper Track) will be conditional on earning a B or better in the 700 level courses in which they are enrolled while in undergraduate status.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Post-Bachelor’s Professional Paper Track
Subplan 2: Integrated BA-MA Professional Paper Track

Subplan 1 Requirements: Post-Bachelor’s Professional Paper Track

Total Credits Required: 30

Course Requirements

Methods in Political Science – Credits: 6
- PSC 701 - Research Design and Methodology
- PSC 702 - Advanced Quantitative Methods I

Proseminar Courses – Credits: 12
- PSC 710R - Proseminar in American Politics
- PSC 740 - Proseminar in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSC 780R - Proseminar in Political Theory

Major Field of Study Courses – Credits: 6

In consultation with your advisor select and complete 6 credits from one of the areas listed below:

American Politics
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
• PSC 723 - Policy Analysis
• PSC 729 - Advanced Studies in Public Policy
• PSC 732 - Constitutional Law
• PSC 739 - Advanced Studies in Public Law

International Relations

• PSC 741 - U.S. Foreign Policy
• PSC 746 - Middle East in World Affairs
• PSC 747 - Pacific Rim in World Affairs
• PSC 751 - International Political Economy
• PSC 754 - Global Governance
• PSC 755 - International Security
• PSC 759 - Advanced Studies in International Relations

Comparative Politics

• PSC 761 - Middle Eastern and North African Politics
• PSC 762 - African Politics
• PSC 763 - European Politics
• PSC 764 - Latin American Politics
• PSC 767 - Comparative Democratization
• PSC 775 - Comparative Political Behavior
• PSC 779R - Advanced Studies in Comparative Politics

Political Theory

• PSC 781 - Political Theory before 1500
• PSC 782R - Political Theory from 1500 to 1900
• PSC 783 - Political Theory since 1900
• PSC 789R - Special Topic: Advanced Studies in Political Theory

Directed Reading – Credits: 6
• PSC 795 - Directed Readings in Political Science

Subplan 2 Requirements: Integrated BA-MA
Professional Paper Track
Total Credits Required: 21

Course Requirements

Methods in Political Science - Credits 3-6
If PSC 701 is taken while students are in the BA program, it will be waived.
• PSC 701 - Research Design and Methodology
• PSC 702 - Advanced Quantitative Methods I

Proseminar Courses - Credits: 3-6
Students will take 2-3 of the following courses while in the BA program. Those courses will be waived.

PSC 710R - Proseminar in American Politics
• PSC 740 - Proseminar in International Relations
• PSC 760R - Proseminar in Comparative Politics
• PSC 780R - Proseminar in Political Theory

Major Field of Study Courses - Credits: 6

American Politics

• PSC 713 - American National Government: Principles
• PSC 714 - American National Government: Structure and Processes
• PSC 719 - Advanced Studies in American Politics
• PSC 721 - Public Policy Process
• PSC 723 - Policy Analysis
• PSC 729 - Advanced Studies in Public Policy
• PSC 732 - Constitutional Law
• PSC 751 - International Political Economy
• PSC 754 - Global Governance
• PSC 755 - International Security
• PSC 759 - Advanced Studies in International Relations

Comparative Politics

• PSC 761 - Middle Eastern and North African Politics
• PSC 762 - African Politics
• PSC 763 - European Politics
• PSC 764 - Latin American Politics
• PSC 767 - Comparative Democratization
• PSC 775 - Comparative Political Behavior
• PSC 779R - Advanced Studies in Comparative Politics

Political Theory

• PSC 781 - Political Theory before 1500
• PSC 782R - Political Theory from 1500 to 1900
• PSC 783 - Political Theory since 1900
• PSC 789R - Special Topic: Advanced Studies in Political Theory

Directed Readings in Political Science - Credits: 6
• PSC 795 - Directed Readings in Political Science
Degree Requirements

1. **PSC 701 – Research Design and Methodology** must be completed among the first 12 credits.

2. New students are assigned to the graduate coordinator for advising. Students will declare an advisor by submitting the Advisor Declaration Form to the Department before the completion of 12 credit hours. Each student must consult with his or her advisor and the graduate coordinator every semester before enrolling in courses.

3. A minimum of 30 credits to be completed must be pre-approved by the graduate coordinator to be counted toward the M.A. Each student must complete the six core courses (see below) as well as six credits (two courses) in one area of Political Science (American politics, comparative politics, international relations, or political theory); and six credits of PSC 795.

4. With department approval, students may complete a maximum of 6 graduate credits from outside Political Science. Students must obtain the permission of the Political Science graduate coordinator prior to enrolling in courses outside of Political Science otherwise the courses will not count toward the M.A. in Political Science. Courses from outside the Department that include an undergraduate component cannot be used for the degree. Independent Study (PSC 791) cannot be used to fulfill a core or elected requirement.

5. The candidate must maintain a minimum 3.0 GPA at all times in order to remain in good standing. Only those courses in which a student receives a grade of B or better may be used for graduate credit.

6. In addition to the required coursework, in consultation with his or her advisor, a student will prepare and present a professional paper. The professional paper will be supervised by a committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

7. Additional Degree Requirements for Subplan 2: Students must complete 9 credits of 700 level courses from among PSC 701, PSC 710R, PSC 740, PSC 760R, and/or PSC 780R. Requirements related to 700 level courses taken while in the BA program will be waived.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his or her degree requirements.

2. The student must submit and successfully defend his or her professional paper by the posted deadline. The defense must be advertised and is open to the public.

**PSC 701 - Research Design and Methodology**  
Cr edits 3  
Exposes graduate students to a body of literature and a set of ideas about doing sound social science research, either applied or non-applied. Emphasis on injecting scientific and theoretical rigor into the investigation of political phenomena. Prerequisites: Graduate standing.

**PSC 702 - Advanced Quantitative Methods I**  
Cr edits 3  
Review of basic statistical techniques and in-depth treatment of bivariate and multivariate regression analysis, including regression diagnostics and remedies for assumption violations. Also introduces advanced statistical estimation techniques including robust regression, time-series analysis, and maximum likelihood estimation. Prerequisites: PSC 701 or equivalent and graduate standing.

**PSC 703 - Topics in Advanced Quantitative Methods**  
Cr edits 3  
Topics in advanced research methodological techniques used in the social sciences, such as maximum likelihood estimation, time series analysis, and formal modeling. Notes: repeatable up to 6 credits. Prerequisites: PSC 701 and PSC 702

**PSC 710R - Proseminar in American Politics**  
Cr edits 3  
Concepts, methods, and theories in American politics. Particular attention is devoted to the presentation and analysis of classic books and articles in the field so as to provide students with the requisite foundation for advanced study.

**PSC 713 - American National Government: Principles**  
Cr edits 3  
Addresses the theoretical principles underlying—and disputed within—the American political regime since the Founding. Readings include writings by American statesmen, political philosophers, and scholars representative of key perspectives in the liberal-constitutional tradition. Satisfies U.S. Constitution requirement. Formerly: (PSC 710) Prerequisites: Graduate standing.

**PSC 714 - American National Government: Structure and Processes**  
Cr edits 3  
American political institutions, public opinion, voting behavior, and the making of public policy. Formerly: PSC 711 Prerequisites: Graduate standing.

**PSC 719 - Advanced Studies in American Politics**  
Cr edits 3  
Selected topics in American politics. Students are advised to take PSC 710R before this course. Notes: May be repeated to a maximum of six credits. Prerequisites: PSC 701 and graduate standing.

**PSC 721 - Public Policy Process**  
Cr edits 3  
Examines the roles of the legislative and executive branches of government in public policy formation and implementation. Surveys empirical techniques used in the field, assesses the impact of ethical theories on the public policy process, and explores selected policy issues in detail. Same as: (EPS 747) Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing.

**PSC 723 - Policy Analysis**  
Cr edits 3  
Aims to enable students to understand and evaluate a range of methods used by professional policy analysts, and to present some of the ethical issues surrounding this practice. Same as: (EPS 747) Notes: Each student is required to locate and critique some examples of policy analysis in his or her own area of interest. Prerequisites: Graduate standing.

**PSC 729 - Advanced Studies in Public Policy**  
Cr edits 3  
Selected topics in public policy. May be repeated to a maximum of six credits. Prerequisites: PSC 701 and graduate standing.

**PSC 732 - Constitutional Law**  
Cr edits 3  
Study of the U.S. Constitution with emphasis on its interpretation, the power of the judiciary, Congress, and executive. Attention also devoted to federal-state relations and the Commerce Clause. Satisfies the U.S. Constitution requirement. Formerly: (PSC 730) Prerequisites: Graduate standing.

**PSC 739 - Advanced Studies in Public Law**  
Cr edits 3  
Advanced Studies in Public Law (PSC 730) Prerequisites: Graduate standing.
PSC 740 - Proseminar in International Relations Credits 3
Concepts, methods, and theories in international relations. Application of these tools to contemporary issues in international politics and economics. Conflict and peace studies, the North-South dialogue, and futures studies. Prerequisites: Graduate standing.

PSC 741 - U.S. Foreign Policy Credits 3
Examines the dynamics of the foreign policy decision-making process, surveys the historical evolution of American foreign policy, and addresses its contemporary issues. Impacts of the changing faces of communism, third-world nationalism, and global economic and political interdependencies on U.S. foreign policy studied in detail. Prerequisites: Graduate standing.

PSC 746 - Middle East in World Affairs Credits 3
Develops a framework for the study of international relations of the Middle East; examines domestic, regional and global determinants of external politics in the region; analyzes its great powers’ interests and policies (strategic, military, economic, etc.) in this area; and studies intraregional problems including the Arab-Israeli imbroglio, inter-Arab conflicts, and turmoil in Lebanon. Prerequisites: Graduate standing.

PSC 747 - Pacific Rim in World Affairs Credits 3
Examines international relations of the Pacific Rim, a key region in contemporary international politics. Analyzes diplomatic/political, military/security, and economic/trade issues in the region, and assesses the dynamics and interdependence of the region and the region’s significance to international politics in the twenty-first century. Prerequisites: Graduate standing.

PSC 751 - International Political Economy Credits 3
Examines the concepts, methods, and theories used in the study of the politics of international economic relations. Major theories of international political economy are examined and applied to the study of international trade, international capital flows, economic development, globalization, regional integration, labor, and the environment.

PSC 754 - Global Governance Credits 3
Examines the theoretical foundations for world order with attention to international organizations, collective security, regional and global integration, transnational capital, social movements, human security, and states.

PSC 755 - International Security Credits 3
This course will examine contemporary threats to international security and peace (e.g., terrorism, conflict) in order to explore the different methods of preventing, managing, and resolving them.

PSC 759R - Advanced Studies in Comparative Politics Credits 3
Selected topics in comparative politics. Students are advised to take PSC 760R before this course. Formerly: (PSC 769) Notes: May be repeated to a maximum of six credits. Prerequisites: PSC 701 and graduate standing.

PSC 760R - Proseminar in Comparative Politics Credits 3
Concepts, methods, and theories in comparative politics. Topics include such as political development, ethnicity, leadership, and political economy. Formerly: (PSC 750) Prerequisites: Graduate standing.

PSC 761 - Middle Eastern and North African Politics Credits 3
Provides students with in-depth analysis of the political institutions, processes, and policies in the Middle East and North Africa. Formerly: (PSC 760) Prerequisites: Graduate standing.

PSC 762 - African Politics Credits 3
This course surveys the broad themes and debates in the study of the politics of sub-Saharan Africa. The historical and geographic forces that have shaped the African state are explored. The nature and performance of the post-colonial state and the attempts at economic and political reform are examined.

PSC 763 - European Politics Credits 3
This course covers the politics of Europe, home to many of the world’s democracies and the European Union. Students will become familiar with the major political (including electoral and legislative) and economic dynamics in Europe.

PSC 764 - Latin American Politics Credits 3
Provides students with an understanding of regime change, party systems, conventional participation, and social movements. Includes coverage of advanced theories of comparative politics as applied to the region.

PSC 767 - Comparative Democratization Credits 3
This course explores the phenomenon of democratization, with a particular focus on the cases of democratization that have occurred since the start of the third wave of democratization in the mid-1970s. The different theoretical approaches to explaining both the transition to and consolidation of democracy will be examined.

PSC 775 - Comparative Political Behavior Credits 3
Examination of the antecedents and consequences of public opinion and political behavior from a comparative perspective, with emphasis given to democratic regimes.

PSC 779R - Advanced Studies in Comparative Politics Credits 3
Selected topics in comparative politics. Students are advised to take PSC 760R before this course. Formerly: (PSC 769) Notes: May be repeated to a maximum of six credits. Prerequisites: PSC 701 and graduate standing.

PSC 780R - Proseminar in Political Theory Credits 3
Concepts and issues in political theory, with emphasis on major texts in the history of political philosophy. Formerly: (PSC 771) Prerequisites: Graduate standing.

PSC 781 - Political Theory before 1500 Credits 3
Readings from works by selected political theorists of the ancient and medieval periods. Authors may include Thucydides, Xenophon, Plato, Aristotle, Cicero, Al-Farabi, Maimonides, and Thomas Aquinas.

PSC 782R - Political Theory from 1500 to 1900 Credits 3
Readings from works by selected political theorists of the early and late modern periods. Authors may include Machiavelli, Hobbes, Locke, Rousseau, Kant, Hegel, J. S. Mill, Marx, and Nietzsche.

PSC 783 - Political Theory since 1900 Credits 3
Readings from works by selected political theorists since 1900. Authors may include Dewey and Heidegger.

PSC 789R - Special Topic: Advanced Studies in Political Theory Credits 3
Selected topics in political theory. Students are advised to take PSC 780R before this course. Formerly: (PSC 779) Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing.

PSC 790 - SP Topics: Studies in Political Science Credits 3
Selection of the research and literature on a selected topic in political science. Specific topic announced each semester. Notes: May be repeated to a maximum of six credits.

PSC 791 - M.A. Independent Study in Political Science Credits 1-3
Program of independent reading and research in political science for M.A. students, to be selected in consultation with an instructor before registration. May be repeated to a maximum of six credits with consent of instructor. Prerequisites: Consent of instructor.

PSC 792 - Ph.D. Independent Study in Political Science Credits 1-3
Program of independent reading and research in political science for Ph.D. students, to be selected in consultation with an instructor before registration. May be repeated to a maximum of six credits with consent of instructor. Prerequisites: Consent of instructor.

PSC 793 - Internship in Political Science Credits 1 – 3
Graduate students have a work assignment in an executive, legislative, or judicial setting, political party, or interest group institution at the national, state, or local governmental level and make regular reports on work activities and assigned readings. Substantial written work required. Formerly: (PSC 780) Notes: May be repeated to a maximum of six credits with consent of instructor.
Psychology

Welcome to the Department of Psychology. Psychology is the science of behavior. The department is a vibrant entity with a rich tradition of excellence in research and teaching as well as service to the university, the community, and the field of psychology. Our faculty members conduct cutting-edge research in clinical, cognitive, and developmental psychology as well as neuroscience and quantitative methods. Our research is enhanced by great diversity in our undergraduate student population and in our community in Las Vegas. The department also has connections with many organizations that include private schools, Clark County agencies, and mental health, medical, and neuroscience centers.

Christopher A. Kearney, Ph.D., Chair
Daniel Allen, Ph.D., Clinical Studies Graduate Coordinator
Jennifer Rennels, Ph.D., Experimental Studies Graduate Coordinator
Kimberly A. Barchard, Ph.D., Quantitative Psychology Graduate Coordinator

Psychology Faculty

Chair
Kearney, Christopher A. - Full Graduate Faculty Distinguished Professor; B.A., State University of New York at Binghamton; M.A., Ph.D., State University of New York at Albany. Rebel since 1990.

Graduate Coordinators
Allen, Daniel N. (Clinical) - Full Graduate Faculty Professor; B.A., Moody Bible Institute; M.S., Eastern Washington University; Ph.D., University of South Dakota. Rebel since 1999.
Barchard, Kimberly A. - Full Graduate Faculty Professor; B.S., Simon Fraser University; M.A., Ph.D., University of British Columbia. Rebel since 2001.
Rennels, Jennifer (Experimental) - Full Graduate Faculty Associate Professor; B.S., Ithaca College; M.A., Ph.D., University of Texas, Austin. Rebel since 2003.

Graduate Faculty
Ashcraft, Mark H. - Full Graduate Faculty Professor; B.A., Grinnell College, M.A., Ph.D., University of Kansas. Rebel since 2005.
Benning, Stephen D. - Full Graduate Faculty Assistant Professor; B.A., Rice University; M.A., Ph.D., University of Minnesota. Rebel since 2012.
Chen, Xiangning - Full Graduate Faculty Professor; B.A., Guangxi Agricultural Institute, Guangxi, China; M.S. Genetics, Genetics Institute, Chinese Academy of Sciences, Beijing, China; Ph.D. Biochemistry and Biophysics, University of Houston. Rebel since 2015.
Copeland, David - Full Graduate Faculty Associate Professor; B.A., Cleveland State University; Ph.D., University of Notre Dame. Rebel since 2006.
Culbert, Kristen M. - Full Graduate Faculty Assistant Professor; B.A., M.A., Ph.D., Michigan State University. Rebel since 2015.
Donohue, Bradley C. - Full Graduate Faculty Professor; B.A., University of Kansas; Ph.D., Nova Southeastern University. Rebel since 1998.
Freeman, Andrew J. - Full Graduate Faculty Assistant Professor; B.S., Denison University; M.A., Ph.D., University of North Carolina at Chapel Hill. Rebel since 2014.
Hannon, Erin E. - Full Graduate Faculty Associate Professor; B.A., New College of Florida; Ph.D., Cornell University. Rebel since 2007.
Heavey, Christopher L. - Full Graduate Faculty Professor; B.A., University of California, Santa Cruz; M.A., Ph.D., University of California, Los Angeles. Rebel since 1992.
Hines, Rochelle M. - Full Graduate Faculty Assistant Professor; B.S., University of Lethbridge; Ph.D., University of British Columbia. Rebel since 2015.
Hurlburt, Russell T. - Full Graduate Faculty Professor; B.S.E., Princeton University; M.S., University of New Mexico; Ph.D., University of South Dakota. Rebel since 1976.
Hyman, James M. - Full Graduate Faculty Assistant Professor; B.S., Virginia Commonwealth University; Ph.D., Boston University. Rebel since 2014.
Kinney, Jefferson W. - Full Graduate Faculty Associate Professor; B.S., M.S., Ph.D., Colorado State University. Rebel since 2007.
Lefforge, Noelle - Full Graduate Faculty Assistant Professor in Residence, B.A., M.A., Ph.D., MHA, University of Nevada, Las Vegas. Rebel since 2013.
McMurray, Janice - Assistant Graduate Faculty Assistant Professor in Residence, B.A., California State University, Northridge, Ph.D., University of Nevada, Las Vegas. Rebel since 2013.

PSC 795 - Directed Readings in Political Science Credits 1 to 6
Program of assigned reading and preparation of professional paper. Formerly: (PSC 782) Notes: May be repeated to a maximum of 6 credits. Grading: TDX Prerequisites: Departmental approval.

PSC 796 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Formerly: (PSC 789) Notes: May be repeated but only six credits applied to the student’s program. Grading: S/F grading only. Prerequisites: Departmental approval.

PSC 799 - Dissertation Credits 3-12
May be repeated but only 12 credits may be applied toward degree. Prerequisites: Passing grade on comprehensive examinations.
Meana, Marta - Full Graduate Faculty Professor; B.A., M.A., Ph.D., McGill University. Rebel since 1997.

Parks, Colleen M. - Full Graduate Faculty Associate Professor; B.A., Trinity University; M.S., Ph.D., Georgia Institute of Technology. Rebel since 2008.

Paul, Michelle G. - Full Graduate Faculty Associate Professor in Residence; B.A., Colgate University; Ph.D., University of Vermont. Rebel since 2004.

Rennels, Jennifer L. - Full Graduate Faculty Associate Professor; B.S., Ithaca College; M.A., Ph.D., University of Texas, Austin. Rebel since 2003.

Robnett, Rachael. - Full Graduate Faculty Assistant Professor; B.A., University of Northern Iowa; M.A., Ph.D., University of California, Santa Cruz. Rebel since 2013.

Silver, N. Clayton - Full Graduate Faculty Associate Professor; B.A., University of Cincinnati; M.S., Ph.D., Tulane University. Rebel since 1997.

Snyder, Joel S. - Full Graduate Faculty Associate Professor; B.A., University of California, San Diego; Ph.D., Cornell University. Rebel since 2007.

Wang, Felix Hao. - Full Graduate Faculty Assistant Professor; B.A., Wesleyan University; Ph.D., University of Southern California. Rebel since 2018.

Professors Emeriti


Kern, Jeffrey M Emeritus Associate Professor; B.A., Queens College; Ph.D. State University of New York at Stony Brook. UNLV Emeritus 1990-2011.

Knapp, Terry J. Emeritus Professor; B.A., B.S., University of Iowa; M.A., University of Northern Iowa; Ph.D., University of Nevada, Reno. UNLV Emeritus 1976-2007.

Doctor of Philosophy - Psychology

This program (Clinical Tracks) is accredited by: APA. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Graduate Faculty of the Department of Psychology is comprised of a group of dedicated individuals who have received their training at outstanding graduate programs. We continue to recruit accomplished scholars who will enhance the quality and diversity of the graduate experience available to our students. The department is committed to providing our graduate students with a high quality program balanced across classroom, laboratories, and other research settings; and for clinical students, various practicum placements. The department currently offers M.A. and Ph.D. degrees through the Clinical and Experimental Psychology Tracks.

The UNLV Clinical Psychology Tracks prepare students to address human concerns through both scholarly research and the application of psychological knowledge and skills. We recognize psychology as an empirical science and expect students to have a broad understanding of existing psychological knowledge. We guide students to base their scholarly and professional activity on the scientific foundation of psychology. Through an integration of didactic study, supervised clinical activity, and mentored scholarly research, we prepare students as generalist scientist-practitioners to conduct scientific research and clinical interventions with children and adults.

The UNLV Experimental Psychology Doctoral Program trains students to become psychological scientists capable of carrying out independent research that lives up to international standards of scientific excellence. Upon completing the degree, students will be qualified to seek careers conducting research in academia and in other institutional and applied settings. Areas of research in which faculty supervise students are: Cognitive Psychology, Neuroscience, Developmental Psychology, and Quantitative/Experimental Psychology. The program operates on a mentor model in which students work under the supervision of an identified faculty mentor. We welcome students from diverse backgrounds and encourage research in topics related to multiculturalism and diversity.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:

- Doctor of Philosophy - Psychology, Clinical Psychology
- Doctor of Philosophy - Psychology, Experimental Psychology

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.
The program is accredited by the American Psychological Association.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Clinical Psychology Tracks

The Clinical Psychology Tracks currently admit only students seeking a doctoral degree. The program admits students for matriculation only in the fall semester. The application deadline is December 1 prior to the fall for which matriculation is being requested. Applicants will be notified of their status prior to April 15. We anticipate entering classes of 5-8 students each year. Typical admitted students have GPAs of 3.7 and GRE scores of 600 (see http://psychology.unlv.edu/clinical.htm#Admission for more information).

1. A bachelor’s degree from an accredited institution or a master’s degree or equivalent from an accredited institution. We strongly recommend that applicants have a degree in psychology. Applicants should have completed at least 18 hours of undergraduate psychology courses including statistics, abnormal psychology, and experimental psychology.

2. Satisfactory scores on the Verbal and Quantitative sections of the Graduate Record Examination (GRE).

3. Three letters of recommendation.

4. A statement of purpose written by the applicant.

5. A personal interview with members of the program faculty is required for finalists in the selection process. We will notify applicants if they are finalists in February under most circumstances. If a personal interview is not feasible, a telephone interview may be substituted. In unusual circumstances, students who do not meet these admission requirements may be admitted.

Experimental Psychology Tracks

The Experimental Psychology tracks currently admit only students seeking a doctoral degree. The program admits students for matriculation only in the fall semester. The application deadline is December 1st before the fall for which matriculation is being requested. Review of completed applications will continue until all positions are filled. Applicants are encouraged to submit their materials as early as possible.

1. A bachelor’s degree from an accredited institution with a minimum GPA of 3.20 (A = 4.00) or a master’s degree or equivalent from an accredited institution with a minimum GPA of 3.50. Applicants with a bachelor’s degree must have completed at least 18 hours in undergraduate psychology courses including Statistics and Research Methods or their equivalents. Post-bachelor students entering the neuroscience emphasis track that are lacking sufficient background in neuroscience will complete PSY 701 prior to taking elective credits. Post-master students entering the Quantitative/Experimental emphasis track that are lacking sufficient background in statistics will complete PSY 708 and PSY 709 prior to taking elective credits.

2. Satisfactory scores on the Verbal and Quantitative sections of the Graduate Record Examination (GRE).

3. Three letters of recommendation.

4. A statement of purpose written by the applicant.

5. Admission to the program will be based on a mentoring model. Students under serious consideration for admission to the Experimental Program are required to have a personal interview with the sponsoring faculty member and at least two other program faculty members. If a personal interview is not financially or pragmatically feasible, a telephone interview may be substituted.

Note: Strong applicants who fail to meet one of the Experimental Program admission requirements may still be considered for admission.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s - Clinical Psychology Track

Total Credits Required: 93

Course Requirements

Clinical Foundation Courses – Credits: 27

- PSY 712 - Psychometrics
- PSY 714 - History and Foundations of Clinical Psychology
- PSY 715 - Assessment of Children
- PSY 716 - Assessment of Adults
- PSY 725 - Intervention with Children
- PSY 726 - Intervention with Adults
- PSY 736 - Psychopathology
- PSY 750 - Diversity in Professional Psychology
- PSY 755 - Ethics and Professional Issues

Research Methods and Statistics Courses – Credits: 9

- PSY 707 - Research Methods
- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II

Practicum – Credits: 6

- PSY 767 - Practicum

Thesis – Credits: 6
After successfully completing the requirements above, students are eligible to earn the Master of Arts – Psychology.

Scientific Breadth in Psychology Courses – Credits: 12
- PSY 701 - Biological Bases of Behavior
- PSY 703 - Cognitive Psychology
- PSY 704 - Social Psychology
- PSY 721 - Developmental Science

Elective Courses – Credits: 6
Complete 6 credits of 700-level Psychology courses. Other 700-level courses offered by other departments may be taken with approval of the student’s advisor and the Clinical Program Committee.

Practicum – Credits: 12
- PSY 767 - Practicum

Internship – Credits: 3
Complete a full calendar year APA-approved clinical psychology internship.
- PSY 771 - Professional Internship

Dissertation – Credits: 12
- PSY 770 - Dissertation

Degree Requirements
1. En route to doctoral candidacy the student must complete the requirements for a master’s degree in psychology, and complete 6 credits of thesis over a minimum of 2 semesters. The thesis must be proposed and defended orally.
2. In addition to a master’s degree in Psychology equivalent to the one previously described (48 credits), a minimum of 45 semester hours in graduate psychology is required for the doctoral degree.
3. Comprehensive Examination. The Comprehensive examination for the doctoral program will consist of an examination administered once each year. Students may take the exam after they have completed 66 credits and the Master’s thesis.
5. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e. C+ or lower) will result in probation. Once on probation for receiving a grade below a B-, a second grade (in the same or different classes) below a B-, will result in immediate separation from the program. If a student re-takes a course in which s/he received a grade lower than a B- (i.e. C+ or lower) and earns a B- or better, s/he will be removed from probation. A student may only be on academic probation twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.
6. Students must conform to all policies of the UNLV Graduate College, as stated in the UNLV Graduate Catalog, those stated in the UNLV Clinical Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies. Inadequate performance in one or more may result in the imposition of additional requirements, loss of Graduate Assistantship, probation, or separation from the program.
7. Transfer Credits. Admitted clinical students may transfer credits from graduate studies in other programs contingent upon departmental approval and in accordance with Graduate College policy.
8. The dissertation must be orally proposed and defended.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
3. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 2 Requirements: Post-Master’s - Clinical Psychology Track

Total Credits Required: 81

Course Requirements

Clinical Foundation Courses – Credits: 27

- PSY 712 - Psychometrics
- PSY 714 - History and Foundations of Clinical Psychology
- PSY 715 - Assessment of Children
- PSY 716 - Assessment of Adults
- PSY 725 - Intervention with Children
- PSY 726 - Intervention with Adults
- PSY 736 - Psychopathology
- PSY 750 - Diversity in Professional Psychology
- PSY 755 - Ethics and Professional Issues

Research Methods and Statistics Courses – Credits: 9

- PSY 707 - Research Methods
- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II

Scientific Breadth in Psychology Courses – Credits: 12

- PSY 701 - Biological Bases of Behavior
- PSY 703 - Cognitive Psychology
- PSY 704 - Social Psychology
- PSY 721 - Developmental Science

Practicum – Credits: 18

- PSY 767 - Practicum

Internship – Credits: 3

Complete a full calendar year APA-approved clinical psychology internship.

- PSY 771 - Professional Internship

Dissertation – Credits: 12

- PSY 770 - Dissertation

Degree Requirements

1. Students must complete a minimum of 81 credit hours with a minimum GPA of 3.00. Additional credits may be required to address student deficiencies or build specialized expertise.

2. The number of required Clinical Foundation Courses, Research Methods and Statistics Courses, and Scientific Breadth in Psychology Courses will be determined in consultation with the Director of Clinical Training. Additional credits may be required to address student deficiencies or build specialized expertise.

3. Comprehensive Examination. The comprehensive examination for the doctoral program will consist of an examination administered once each year. Students may take the exam after they have completed 45 credits.

4. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or different classes) below a B- will result in immediate separation from the program. If a student retakes a course in which he or she received a grade lower than a B- (i.e., C+ or lower) and earns a B- or better, that student will be removed from probation. Students may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

5. Students must conform to all policies of the UNLV Graduate College as stated in the UNLV Graduate Catalog, all policies stated in the UNLV Clinical Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies. Inadequate performance in one or more may result in the imposition of additional requirements, loss of Graduate Assistantship, probation, or separation from the program.

6. Transfer Credits. Admitted clinical students may transfer credits from graduate studies in other programs contingent upon departmental approval and in accordance with Graduate College policy.

7. The dissertation must be orally proposed and defended.

Graduation Requirements

1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing their degree requirements.

2. Students must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Subplan 3 Requirements: Post-Bachelor’s - Experimental Psychology - Quantitative/Experimental Emphasis Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 12
- PSY 707 - Research Methods
- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6
Complete the following course each semester during the first two years of study.
- PSY 758 - Proseminar in Experimental Psychology

Breadth Courses – Credits: 3
Complete one course from one of the following options:

Option 1:
- PSY 704 - Social Psychology

Option 2:
- PSY 701 - Biological Bases of Behavior
- PSY 719 - Behavioral Neuroscience
- PSY 720 - Systems and Cognitive Neuroscience

Option 3:
- PSY 703 - Cognitive Psychology
- PSY 718 - Cognitive Science

Option 4:
- PSY 705 - Developmental Psychology
- PSY 721 - Developmental Science

Elective Courses – Credits: 24
Complete 24 credits of 700-level Psychology courses, or 600/700-level advisor-approved courses offered by other departments. Students should use their elective credits to specialize in some area of quantitative/experimental psychology. Students will construct their course structures in collaboration with their mentors. See the Experimental Psychology Ph.D. Program Handbook for potential areas of specialization and proposed course plans for these areas of specialization.

Dissertation – Credits: 12
- PSY 770 - Dissertation

Degree Requirements

1. En route to doctoral candidacy the student must complete the requirements for a master’s degree in psychology and complete 6 credits of thesis over a minimum of 2 semesters.

2. In addition to a master’s degree in Psychology equivalent to the one previously described, a minimum of 39 semester hours in graduate psychology is required for the doctoral degree.

3. Student will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area, but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

4. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B-, will result in
immediate separation from the program. If a student re-takes a course in which s/he received a grade lower than a B- (i.e. C+ or lower) and earns a B- or better, s/he will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

5. Students must conform to all policies of the UNLV Graduate College, as stated in the UNLV Graduate Catalog, those stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

6. Students must take a minimum of four semesters of dissertation which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: Post-Bachelor’s - Experimental Psychology - Cognitive Emphasis Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 9
- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6
Complete the following course each semester during the first two years of study:
- PSY 758 - Proseminar in Experimental Psychology

Cognitive Emphasis Courses – Credits: 6
Complete two of the following courses:
- PSY 717 - Cognitive Methods
- PSY 718 - Cognitive Science
- PSY 720 - Systems and Cognitive Neuroscience

Elective Courses – Credits: 21

Cognitive Emphasis Courses – Credits: 3
Complete the course that has not been applied to the master’s degree:
- PSY 717 - Cognitive Methods
- PSY 718 - Cognitive Science
- PSY 720 - Systems and Cognitive Neuroscience

Cognitive Seminar Courses – Credits: 3
Complete one of the following seminar courses:
- PSY 747 - Topics in Perception
- PSY 748 - Topics in Memory:
- PSY 749 - Topics in Cognitive Processes:

Elective Courses – Credits: 0
Complete 21 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. Courses at the 600-level offered by other departments require approval by the advisor and the Experimental Program Director.

Two electives typically taken by students are:

- PSY 757 - Teaching of Psychology
- PSY 772 - Experimental Psychology Qualifying Paper Research

Dissertation – Credits: 12
- PSY 770 - Dissertation

Degree Requirements

1. En route to doctoral candidacy the student must complete the requirements for a master’s degree in psychology, and complete 6 credits of thesis over a minimum of 2 semesters.

2. In addition to a master’s degree in psychology equivalent to the one previously described (33 credits), a minimum of 39 credits in graduate psychology is required for the doctoral degree.

3. Students will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

4. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B-(i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B- will result in immediate separation from the program. If a student retakes a course in which he or she received a grade lower than a B-(i.e., C+ or lower) and earns a B- or better, that student will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

5. Students must conform to all policies of the UNLV Graduate College as stated in the UNLV Graduate Catalog, those policies stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

6. Students must take a minimum of four semesters of dissertation, which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements

1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing their degree requirements for both the master’s and doctoral portions of the program.

2. Students must submit and successfully defend their thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

4. Students must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 5 Requirements: Post-Bachelor’s - Experimental Psychology - Neuroscience Emphasis Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 15

Complete the following courses:

- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 719 - Behavioral Neuroscience
- PSY 720 - Systems and Cognitive Neuroscience
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology
Proseminar Course – Credits: 6
Complete the following course each semester during the first two years of study.
  • PSY 758 - Proseminar in Experimental Psychology

Elective Courses – Credits: 6
Complete 6 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. 600-level courses offered by other departments require advisor approval and concurrence by the Experimental Program Director.

Thesis – Credits: 6
  • PSY 769 - Thesis

After successfully completing the requirements above, students are eligible to earn the Master of Arts – Psychology.

Elective Courses – Credits: 27
Complete 27 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. 600-level courses offered by other departments require advisor approval and concurrence by the Experimental Program Director.

Two electives typically taken by students are:
  • PSY 757 - Teaching of Psychology
  • PSY 772 - Experimental Psychology Qualifying Paper Research

Dissertation – Credits: 12
  • PSY 770 - Dissertation

Degree Requirements
1. En route to doctoral candidacy the student must complete the requirements for a master’s degree in psychology, and complete 6 credits of thesis over a minimum of 2 semesters.

2. In addition to a master’s degree in Psychology equivalent to the one previously described (33 credits), a minimum of 39 credits in graduate psychology is required for the doctoral degree.

3. Student will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area, but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

4. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B-, will result in immediate separation from the program. If a student re-takes a course in which s/he received a grade lower than a B- (i.e. C+ or lower) and earns a B- or better, s/he will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

5. Students must conform to all policies of the UNLV Graduate College, as stated in the UNLV Graduate Catalog, those stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

6. Students must take a minimum of four semesters of dissertation which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.
5. After the dissertation defense, the student must electronically submit a properly formatted PDF copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 6 Requirements: Post-Bachelor’s - Experimental Psychology - Developmental Emphasis Track

Total Credits Required: 72

Course Requirements

Required Courses – Credits: 12

- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 713 - Developmental Research
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6
Complete the following course each semester during the first two years of study.

- PSY 758 - Proseminar in Experimental Psychology

Developmental Science Course – Credits: 3
Complete 3 credits of the following course:

- PSY 721 - Developmental Science

Elective Courses – Credits: 6
Complete 6 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. 600-level courses offered by other departments require advisor approval and concurrence by the Experimental Program Director.

Thesis – Credits: 6

- PSY 769 - Thesis

After successfully completing the requirements above, students are eligible to earn the Master of Arts – Psychology.

Developmental Seminar Course – Credits: 3
Complete 3 credits of the following course:

- PSY 740 - Topics in Developmental Psychology

Breadth Courses – Credits: 6
Complete 6 credits of courses from two different options that have not been applied to the master’s degree:

Option 1)
- PSY 704 - Social Psychology

Option 2)
- PSY 701 - Biological Bases of Behavior
- PSY 719 - Behavioral Neuroscience

Option 3)
- PSY 720 - Systems and Cognitive Neuroscience
- PSY 703 - Cognitive Psychology
- PSY 718 - Cognitive Science

Elective Courses – Credits: 18
Complete 18 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. 600-level courses offered by other departments require advisor approval and concurrence by the Experimental Program Director.

Two electives typically taken by students are:

- PSY 757 - Teaching of Psychology
- PSY 772 - Experimental Psychology Qualifying Paper Research

Dissertation – Credits: 12

- PSY 770 - Dissertation

Degree Requirements

1. En route to doctoral candidacy the student must complete the requirements for a master’s degree in psychology, and complete 6 credits of thesis over a minimum of 2 semesters.

2. In addition to a master’s degree in Psychology equivalent to the one previously described (33 credits), a minimum of 39 credits in graduate psychology is required for the doctoral degree.

3. Student will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area, but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

4. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for
Students must conform to all policies of the UNLV Graduate College, as stated in the UNLV Graduate Catalog. Students must take a minimum of four semesters of dissertation which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. The student must submit and successfully defend his/ her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

4. The student must submit and successfully defend his/ her dissertation by the posted deadline. The defense must be advertised and is open to the public.

5. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 7 Requirements: Post-Master’s - Experimental Psychology - Quantitative/Experimental Emphasis Track

Total Credits Required: 42

Course Requirements

Required Courses – Credits: 6

- PSY 707 - Research Methods
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6

Complete the following course each semester during the first two years of study:

- PSY 758 - Proseminar in Experimental Psychology

Elective Courses – Credits: 18

Complete 18 credits of 700-level Psychology courses, or 600/700-level advisor-approved courses offered by other departments. Students should use their elective credits to specialize in some area of quantitative/experimental psychology. Students will construct their course structures in collaboration with their mentors. See the Experimental Psychology Ph.D. Program Handbook for potential areas of specialization and proposed course plans for these areas of specialization.

Dissertation – Credits: 12

- PSY 770 - Dissertation

Degree Requirements

1. Students must complete a minimum of 42 credit hours with a minimum GPA of 3.00. Additional credits may be required to address student deficiencies or build specialized expertise.

2. Students will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

3. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B- will result in immediate
separation from the program. If a student retakes a course in which he or she received a grade lower than a B- (i.e., C+ or lower) and earns a B- or better, that student will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

4. Students must conform to all policies of the UNLV Graduate College as stated in the UNLV Graduate Catalog, those policies stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

5. Students must take a minimum of four semesters of dissertation, which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements

1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing their degree requirements.

2. Students must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. Students must submit their approved, properly formatted dissertation to the Graduate College, and submit the approved electronic version to ProQuest by the posted deadline.

Subplan 8 Requirements: Post-Master’s - Experimental Psychology - Cognitive Emphasis Track

Total Credits Required: 42

Course Requirements

Required Courses – Credits: 9
• PSY 708 - Statistics for Psychologists I
• PSY 709 - Statistics for Psychologists II
• PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6

Complete the following course each semester during the first two years of study:
• PSY 758 - Proseminar in Experimental Psychology

Cognitive Emphasis Courses – Credits: 9
• PSY 717 - Cognitive Methods
• PSY 718 - Cognitive Science
• PSY 720 - Systems and Cognitive Neuroscience

Cognitive Seminar Courses – Credits: 3
Complete 3 credits from the following list of courses:
• PSY 747 - Topics in Perception
• PSY 748 - Topics in Memory:
• PSY 749 - Topics in Cognitive Processes:

Elective Courses – Credits: 3
Complete 3 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. Courses at the 600-level offered by other departments require approval by the advisor and the Experimental Program Director.

Two electives typically taken by students are:
• PSY 757 - Teaching of Psychology
• PSY 772 - Experimental Psychology Qualifying Paper Research

Dissertation – Credits: 12
• PSY 770 - Dissertation

Degree Requirements

1. Students must complete a minimum of 42 credit hours with a minimum GPA of 3.00. Additional credits may be required to address student deficiencies or build specialized expertise.

2. Students will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

3. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B- will result in immediate separation from the program. If a student retakes a course in which he or she received a grade lower than a B- (i.e., C+ or lower) and earns a B- or better, that
student will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.

4. Students must conform to all policies of the UNLV Graduate College as stated in the UNLV Graduate Catalog, those policies stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

5. Students must take a minimum of four semesters of dissertation, which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements
1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing their degree requirements.
2. Students must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.
3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 9 Requirements: Post-Master’s - Experimental Psychology - Neuroscience Emphasis Track
Total Credits Required: 42

Course Requirements

Required Courses – Credits: 15
*Students lacking sufficient background in Neuroscience will also take PSY 701 – Biological Bases of Behavior prior to taking these core courses.

- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 719 - Behavioral Neuroscience *
- PSY 720 - Systems and Cognitive Neuroscience *
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6
Complete the following course each semester during the first two years of study:
- PSY 758 - Proseminar in Experimental Psychology

Elective Courses – Credits: 9
Complete 9 credits of 700-level Psychology courses, or other 700-level advisor-approved courses offered by other departments. 600-level courses offered by other departments require advisor approval and concurrence by the Experimental Program Director.

Two electives typically taken by students are:
- PSY 757 - Teaching of Psychology
- PSY 772 - Experimental Psychology Qualifying Paper Research

Dissertation – Credits: 12
- PSY 770 - Dissertation

Degree Requirements
1. Students must complete a minimum of 42 credit hours with a minimum GPA of 3.00. Additional credits may be required to address student deficiencies or build specialized expertise.
2. Students will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area, but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.
3. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B- will result in immediate separation from the program. If a student retakes a course in which he or she received a grade lower than a B- (i.e., C+ or lower) and earns a B- or better, he or she will be removed from probation. A student may be on academic probation only twice during their graduate career in Psychology; a third probation will result in separation from the program. No student shall be allowed more than two simultaneous grades of incomplete, except in the case of a documented and approved medical leave.
4. Students must conform to all policies of the UNLV Graduate College as stated in the UNLV Graduate Catalog, those policies stated in the UNLV Experimental Psychology Doctoral Program Student Handbook, and the American Psychological Association Code of Ethics. Students will be evaluated at least yearly across several professional competencies in the following three areas: (1) academic performance; (2) scholarly research activity; and (3) ethical behavior and professional conduct. If the program determines that a student is not making satisfactory progress toward the degree, it may request the Graduate Dean to separate the student from the program or place the student on probation. Failure to meet the conditions of the probation will result in separation from the program.

5. Students must take a minimum of four semesters of dissertation, which can include summers. The dissertation must be orally proposed and defended.

Graduation Requirements

1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing their degree requirements for the doctoral portions of the program.

2. Students must submit and successfully defend their dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 10 Requirements: Post-Master’s - Experimental Psychology - Developmental Emphasis Track

Total Credits Required: 42

Course Requirements

Required Courses – Credits: 12

Complete 12 credits from the following list of courses:

- PSY 708 - Statistics for Psychologists I
- PSY 709 - Statistics for Psychologists II
- PSY 713 - Developmental Research
- PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology

Proseminar Course – Credits: 6

Complete the following course each semester during the first two years of study.

- PSY 758 - Proseminar in Experimental Psychology

Developmental Science Course – Credits: 3

Complete 3 credits of the following course:

- PSY 721 - Developmental Science

Developmental Seminar Course – Credits: 3

Complete 3 credits of the following course:

- PSY 740 - Topics in Developmental Psychology

Breadth Courses – Credits: 6

Complete 6 credits of courses from two different options:

Option 1)
- PSY 704 - Social Psychology

Option 2)
- PSY 701 - Biological Bases of Behavior
- PSY 719 - Behavioral Neuroscience
  or
- PSY 720 - Systems and Cognitive Neuroscience
  Option 3)
- PSY 703 - Cognitive Psychology
  or
- PSY 718 - Cognitive Science

Dissertation – Credits: 12

- PSY 770 - Dissertation

Degree Requirements

1. Students must complete a minimum of 42 credit hours with a minimum GPA of 3.00. Additional credits may be required to address student deficiencies or build specialized expertise.

2. Student will be required to complete a Qualifying Activity before proposing a Dissertation. The purpose of the qualifying activity is for the student to acquire not only the expertise in a given area, but also the ability to explain, discuss, and debate questions within that and related areas. Students may choose, in consultation with their advisor, from the following qualifying activities: one extensive qualifying paper, three brief papers, a written examination, or an oral examination.

3. Students must obtain a grade of B- or better in each course taken for that course to count toward the degree. One grade below a B- (i.e., C+ or lower) will result in probation. Once a student is on probation for receiving a grade below a B-, a second grade (in the same or a different class) below a B-, will result in immediate separation from the program. If a student re-takes a course in which s/he received a grade lower
Graduate Certificate in Quantitative Psychology

Plan Description

The certificate in Quantitative Psychology provides graduate students with advanced training in statistical, psychometric, methodological, and computational procedures. The certificate equips students to improve the quality of their substantive research and helps students obtain favorable positions in academia, industry, and the private sector upon graduation.

All admitted UNLV graduate students are eligible to pursue the Quantitative Psychology certificate. Students who participate in this certificate are typically drawn from doctoral students who are enrolled in the Psychology Department. However, the Quantitative Psychology certificate is not restricted to psychology doctoral students. Students who are pursuing a Psychology doctoral degree with an emphasis on Quantitative/Experimental are not eligible for the certificate.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

To be admitted to the program, you must:

1. Be an admitted UNLV graduate student.
2. Submit a completed application and required application fee.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12

Complete 12 credits of the following or other approved courses:

- PSY 707 - Research Methods
- PSY 710 - Multivariate Analysis in Psychology
- PSY 711 - Advanced Seminar in Psychological Statistics
- PSY 712 - Psychometrics
- PSY 713 - Developmental Research
- PSY 717 - Cognitive Methods

Certificate Requirements

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

613 Graduate Catalog • College of Liberal Arts
1. The certificate in Quantitative Psychology requires students to take 12 credits of approved courses, these courses cannot include the 6 credits that are required of all psychology doctoral students (PSY 708 and PSY 709). The courses listed above are automatically approved.

2. Additional courses from the Department of Psychology and other departments can count towards the certificate in Quantitative Psychology.  
1. To obtain approval to take a course, a student should consult their primary mentor. If the course is offered in another department, students may also need permission from the instructor. 
2. To obtain approval to count a course towards the Quantitative Psychology certificate, the student should submit the syllabus to the coordinator of the Department of Psychology Quantitative/Experimental Emphasis.

3. PSY 766 - Independent Study and PSY 768 - Independent Research can count towards the certificate in Quantitative Psychology with the approval of the coordinator of the Quantitative/Experimental Emphasis. These courses may be appropriate in four circumstances: 
1. The student will gain expertise in an advanced technique that is not taught at UNLV. 
2. The student will write a paper concerning recent advancements (e.g., up-to-date research) in a particular statistical area (e.g., range tests, SEM). 
3. The student will conduct a quantitative research project (e.g., write a program, conduct a Monte Carlo study, or complete an original derivation), separate from his or her master’s thesis or dissertation. 
4. The student will author or co-author an empirical paper that requires an advanced analysis, and will have primary responsibility for the analysis and presentation of results. This paper must be independent of the student’s master’s thesis or dissertation.

4. A brief written proposal (1-2 pages) must be approved by the student’s advisor and the coordinator of the Quantitative/Experimental Emphasis before the student registers for PSY 766 or PSY 768. To count the course towards the certificate, the student should submit the completed product to the coordinator of the Quantitative/Experimental Emphasis, along with a description of the contribution the student made to the project.

5. A grade point average of at least 3.0 for course work required for the certificate.

Plan Certificate Completion Requirements
The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.

PSY 701 - Biological Bases of Behavior Credits 3
A detailed examination of the biological processes that underlie behavior including basic structure and function of the nervous system, physiological bases of behavior, and neuroscience approaches to topics such as sensation, perception, learning, memory, emotion, sleep, and development. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 702 - Sensation and Perception Credits 3
Critical review of major theories and issues in perception research, including a discussion of psychophysical methods, general auditory perception, speech, vision, olfaction, gustation, and touch. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 703 - Cognitive Psychology Credits 3
Critical review of theory and findings in cognitive psychology, including an evaluation of research in attention, pattern recognition, the representation of events in memory, and language. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 704 - Social Psychology Credits 3
Overview of current theory and research in social psychology. Both the limitations and implications of social psychological theory explored using current research evidence. Topics include attitude change, social influence, attribution theory, social cognition, and cross-cultural perspectives. Prerequisites: Admitted PhD Psychology students only and PSY 460 and consent of instructor.

PSY 705 - Developmental Psychology Credits 3
Survey of cognitive, social, and emotional development from birth through adolescence. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 707 - Research Methods Credits 3
Advanced treatment of the issues involved in planning, conducting, and evaluating research. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 708 - Statistics for Psychologists I Credits 3
Treatment of analysis of variance and multiple comparison methods applied to psychological research. Prerequisites: Admitted PhD Psychology students only.

PSY 709 - Statistics for Psychologists II Credits 3
Treatment of correlation, multiple regression, chi-square, and analysis of covariance as applied to psychological research. Prerequisites: Admitted PhD Psychology students only.

PSY 710 - Multivariate Analysis in Psychology Credits 3
Examination of multivariate statistical techniques including topics such as multivariate analysis of variance and covariance, discriminant function analysis, profile analysis, factor analysis, principal components analysis, and canonical correlation. Prerequisites: PSY 708 and PSY 709 or equivalent and admitted PhD Psychology students only.

PSY 711 - Advanced Seminar in Psychological Statistics Credits 3
Examination of advanced statistical techniques such as nonparametric statistics, meta analysis, time-series analysis, and structural equation modeling. Notes: May be repeated to a maximum of 18 credits. Prerequisites: PSY 708 and PSY 709 or permission of the instructor.

PSY 712 - Psychometrics Credits 3
Principles of evaluating and constructing psychological tests using psychometric theory and behavioral assessment methodology. Prerequisites: Admitted PhD Psychology students only.

PSY 713 - Developmental Research Credits 3
Application of theory, methods, designs, analyses, and interpretation of research in developmental psychology. Prerequisites: Admitted PhD Psychology students only.
PSY 714 - History and Foundations of Clinical Psychology Credits 3
An overview of the historical development of psychology as well as exploration of current theoretical and skills-based issues in clinical psychology. Prerequisites: Admitted PhD Psychology students only and limited to students enrolled in clinical psychology doctoral program.

PSY 715 - Assessment of Children Credits 3
Theory and practice of psychological assessment of children. Prerequisites: Admitted PhD Psychology students only and limited to students enrolled in clinical psychology doctoral program.

PSY 716 - Assessment of Adults Credits 3
Theory and practice of psychological assessment of adults. Prerequisites: Admitted PhD Psychology students only and limited to students enrolled in clinical psychology doctoral program.

PSY 717 - Cognitive Methods Credits 3
Overview of cognitive and neuroscience research methods, including demonstrations of equipment and software that is used for conducting experiments and analyzing results. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 718 - Cognitive Science Credits 3
An exploration of topics related to cognition from fields such as perception, neuroscience, computational modeling, artificial intelligence, anthropology, and linguistics. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 719 - Behavioral Neuroscience Credits 3
Examines the neural basis of behavior including cellular, molecular, and genetic contributions. Topics will include neuronal cellular structure and function, neuroanatomy, experimental methods/techniques, and detailed investigations of the mechanisms involved in various behaviors and neurological/psychological disorders. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 720 - Systems and Cognitive Neuroscience Credits 3
Examines systems and cognitive neuroscience theories, methods, and data used to understand topics such as perception, attention, action, learning, memory, emotion, social behavior, language, music, and brain disorders. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 721 - Developmental Science Credits 3
Discussion and critical review of theoretical perspectives and issues in developmental psychology. Topics include aspects of physiological, cognitive, and social development. Notes: Can be taken for a maximum of 3 credits. Prerequisites: Admitted PhD Psychology students.

PSY 722 - Developmental and Social Psychology Credits 3
Advanced discussion and integration of critical issues pertaining to both human development across the lifespan and social processes in dyads and groups, with a special focus on the social contexts of development. Grading: Letter grade Prerequisites: Admitted to the Psychology PhD program or Permission of Instructor

PSY 723 - Assessment I: Cognitive and Academic Assessment Credits 3
Theory and practice of cognitive and academic assessment across the lifespan. Grading: Letter grade Prerequisites: Admitted to Psychology PhD program or Consent of instructor

PSY 724 - Assessment II: Personality and Psychopathology Credits 3
Theory and practice of personality and psychopathology assessment across the lifespan. Grading: Letter grade Prerequisites: Enrolled in psychology PhD program or Consent of Instructor

PSY 725 - Intervention with Children Credits 3
Principles and methods of psychological intervention with children. Prerequisites: Admitted PhD Psychology students only and limited to students enrolled in clinical psychology doctoral program.

PSY 726 - Intervention with Adults Credits 3
Principles and methods of psychological intervention with adults. Prerequisites: Admitted PhD Psychology students only and limited to students enrolled in clinical psychology doctoral program.

PSY 736 - Psychopathology Credits 3
Advanced treatment of psychopathology covering description, diagnosis, classification, physiological factors, and psychodynamics. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 737 - Child Psychopathology Credits 3
Primary features, etiological theories, and epidemiology of behavior disorders in youth. Major diagnostic groupings covered include internalizing disorders (i.e., anxiety, depression, suicide, social withdrawal), externalizing disorders (i.e. ADHD, conduct disorder, substance abuse), pediatric problems, and developmental disabilities (e.g., autism, mental retardation). Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 740 - Topics in Developmental Psychology Credits 3
Analysis of theoretical concepts and research pertinent to the development of the individual. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Admitted PhD Psychology students only.

PSY 741 - Psychology and Health Credits 3
In-depth study of selected topics in the science of health psychology and/or the practice of behavioral medicine. Emphasis on theoretical foundations and empirical findings. Topics permitting, instruction on the clinical practice of behavioral medicine. Prerequisites: Completion of year 1 of PhD program and admitted PhD Psychology students only.

PSY 742 - Psychopharmacology Credits 3
In-depth study of the effects of psychoactive drugs on nervous system function and behavior. Topics include pharmacokinetics, pharmacodynamics, principles of neurotransmission, mechanisms of drug action, theoretical models of drug dependence and experimental approaches to psychopharmacology research. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 743 - Human Sexuality Credits 3
In-depth examination of the social and biological foundations of human sexuality. Includes detailed explorations of the latest research on the human sexual response, the relation of sexuality to psychological adjustment, variations in sexual behavior and identity, sexual dysfunction, and sociocultural issues. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 744 - Neuropsychology Credits 3
Provides in-depth examination of the area of neuropsychology to include information on the historical roots of neuropsychology, organization of the human nervous system, brain-behavior relationships, higher cognitive functions, assessment techniques, neuropathology, neurological conditions, report writing, and developing recommendations for treatment planning. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 747 - Topics in Perception Credits 3
A seminar that explores the core concepts and recent developments in an area of perception. Potential topics include vision, hearing, taste, touch, and smell. Notes: May be repeated to a maximum of 12 credits. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 748 - Topics in Memory Credits 3
Seminar that explores the core concepts and recent developments in an area of memory research. Potential topics include short-term, working, episodic, semantic, procedural, implicit/explicit, and prospective memory. Prerequisites: Admitted PhD Psychology students only and consent of instructor.
PSY 749 - Topics in Cognitive Processes: Credits 3
A seminar that explores the core concepts and recent developments in an area of cognitive processes. Potential topics include reasoning, decision-making, mathematics, problem-solving, and language use. Notes: May be repeated to a maximum of twelve credits. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 750 - Diversity in Professional Psychology Credits 3
Acquaints students with the growing body of psychological literature on ethnic, age, life style, and other diversity issues. Emphasis on sensitizing students to unique aspects of minority populations, while enhancing their ability to work with individuals from various backgrounds. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 752 - Group Psychotherapy: Principles and Practice Credits 3
The practice of competent, evidence-based group psychotherapy, its foundation, and supportive theories. Addresses key aspects of group therapy and relevant ethics. Prerequisites: Must have taken or currently be enrolled in PSY 767.

PSY 755 - Ethics and Professional Issues Credits 3
Examination of ethical and professional issues related to the practice of psychology. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 756 - Ethics, Professional Issues, and Diversity in Experimental Psychology Credits 3
Examination of ethical, professional, and diversity issues related to the practice of experimental psychology. Topics include publishing, grant funding, the professoriate, scientific misconduct, protection of human and nonhuman subjects, and diversity in experimental psychology. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 757 - Teaching of Psychology Credits 3
Preparation and presentation of teaching material, the grading process, and solicitation of student feedback, among other variables. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 758 - Proseminar in Experimental Psychology Credits 1 – 2
Weekly forum for students and faculty to discuss professional issues and interdisciplinary research in experimental psychology. Notes: May be repeated to a maximum of six credits. Prerequisites: Admitted PhD Psychology students only and consent of instructor.

PSY 762 - Introduction to Clinical Supervision Credits 3
The practice of competent clinical supervision, focusing on the roles and responsibilities of the supervisor, models and methods of supervision, and legal and ethical issues. Concurrent supervision of practicum students. Prerequisites: Admitted PhD Psychology students only and consent of instructor and limited to students enrolled in clinical psychology doctoral program.

PSY 765 - Seminar Credits 1 – 6
Explores a specific aspect of psychology. Department approval must be obtained prior to registration. Notes: May be repeated to a maximum of six credits. Prerequisites: Admitted PhD Psychology students.

PSY 766 - Independent Study Credits 1 – 9
Individual projects under the direction of a faculty member. Notes: Department approval must be obtained prior to registration. Student may enroll for 1-9 credits per semester. May be repeated. Grading: Letter grade Prerequisites: Admitted PhD Psychology students only.

PSY 767 - Practicum Credits 3
Supervised clinical experience at a departmentally approved site. Notes: Department approval must be obtained prior to registration. May be repeated. Prerequisites: Admitted PhD Psychology students only.
Sociology

The graduate faculty in Sociology consists of scholars/teachers who have earned doctorates at some of the leading graduate schools in the country. The Department of Sociology offers two graduate program tracks: a Ph.D. program for students who have already earned a master’s degree and a bachelor’s to Ph.D. track for qualified students who want to earn their M.A. and Ph.D. in Sociology at UNLV in a single program. We offer ten areas of specialization: (1) family, aging & the life course; (2) culture; (3) deviance & criminology; (4) environment & health; (5) race & ethnic studies; (6) gender & sexuality; (7) politics & social movements; (8) social psychology & theory; (9) community & urban studies; and (10) demography & population studies. The Ph.D. program, which began in 1989, has graduated scholars who hold positions in academia, the nonprofit sector, private industry and public service. Graduates from our Ph.D. program are trained in advanced theory and methods, and have well-developed expertise in at least two of our departmental areas of specialization. The Department of Sociology welcomes applications for the Ph.D. program from candidates who can demonstrate a record of significant academic achievement and potential for professional success in sociology.

Robert Futrell, Ph.D., Chair
Simon Gottschalk, Ph.D., Graduate Coordinator

Sociology Faculty

Chair
Futrell, Robert - Full Graduate Faculty Professor; B.A., University of Kentucky; M.A., Ph.D., University of Kansas. Rebel since 1999.

Graduate Coordinator
Gottschalk, Simon - Full Graduate Faculty Professor; B.A., Haifa University (Israel); M.A., University of Houston; Ph.D., University of California, Santa Barbara. Rebel since 1992.

Graduate Faculty
Batson, Christie - Full Graduate Faculty Associate Professor; B.A., University of Texas, Austin, M.A., Ph.D., the Ohio State University. Rebel since 2007.
Bernhard, Bo - Full Graduate Faculty Professor/Director; B.A., Harvard University; M.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2002.
Borer, Michael Ian - Full Graduate Faculty Associate Professor; B.A., Lafayette College; M.A., Ph.D., Boston University. Rebel since 2008.
Bhatta, Tirth - Full Graduate Faculty Assistant Professor; B.S. M.S., Tri-Chandra College/Tribhuvan University (Nepal); M.G.S., Miami University; Ph.D., Case Western Reserve University. Rebel since 2017.
Breits, Barbara G. - Full Graduate Faculty Professor; B.J., M.A., Ph.D., University of Missouri, Columbia. Rebel since 1987.
Carter, Courtney M. - Full Graduate Faculty Assistant Professor; B.A. Truman State University; M.A. Ph.D. University of Illinois at Chicago. Rebel since 2017
Davis, Georgiann - Full Graduate Faculty Assistant Professor; B.A., Northeastern Illinois University; M.A., University of Wisconsin, Milwaukee; Ph.D., University of Illinois, Chicago. Rebel since 2014.
Dickens, David - Full Graduate Faculty Professor; B.A., Ph.D., University of Kansas. Rebel since 1984.

Francis, Kerie Ann - Assistant Professor in Residence; B.A., M.A., Ph.D., University of Nevada, Las Vegas. Rebel since 2015.
Gottschalk, Simon - Full Graduate Faculty Professor; B.A., Haifa University (Israel); M.A., University of Houston; Ph.D., University of California, Santa Barbara. Rebel since 1992.
Keene, Jennifer - Full Graduate Faculty Professor and Associate Dean, College of Liberal Arts; B.A., Tulane; M.S., Ph.D., Florida State University. Rebel since 2001.
Korgan, Kathryn Hausbeck - Full Graduate Faculty Associate Professor and Senior Associate Dean, Graduate College; B.A., M.A., Ph.D. State University of New York at Buffalo. Rebel since 1995.
Lawrence, Elizabeth - Full Graduate Faculty Assistant Professor; B.A. Philosophy, University of Notre Dame; M.A. Sociology, University of Colorado Boulder; Ph.D. Sociology, University of Colorado Boulder. Rebel since 2018.
Parker, Robert E. - Full Graduate Faculty Professor; B.S., Southern Illinois University; M.A., Ph.D., University of Texas, Austin. Rebel since 1989.
Ray, Ranita - Full Graduate Faculty Assistant Professor; B.A., University of Calcutta (India); M.A., Ph.D., University of Connecticut. Rebel since 2013.
Rodriguez, Cassandra - Full Graduate Faculty Assistant Professor; B.A. California State University Northridge; M.A. Ph.D. University of Massachusetts Amherst. Rebel since 2017
Shalin, Dmitri N. - Full Graduate Faculty Professor; B.A., M.A., Leningrad State University; Ph.D., Institute of Sociological Research, U.S.S.R. Academy of Science; M.Phil, Ph.D., Columbia University. Rebel since 1991.
Spivak, Andrew - Full Graduate Faculty Associate Professor; B.B.A., University of Oklahoma; B.A., M.A., University of Central Oklahoma; M.A., Ph.D., University of Oklahoma. Rebel since 2008.

Professors Emeriti
Carns, Donald E. - Professor; B.A., M.A., Southern Illinois University; Ph.D., Indiana University. UNLV Emeritus 1973-2013.
Fontana, Andrea - Professor; B.A., M.A., Ph.D., University of California, San Diego. UNLV Emeritus 1976.
Frey, James - Professor and Dean; B.A., Augustana College; M.A., University of Iowa; Ph.D., Washington State University. UNLV Emeritus 1974.
Smith, Ronald - Professor and Vice President for Research and Graduate Dean; B.S., Southeast Missouri State College; M.A., Northern Illinois University; Ph.D., Washington State University. UNLV Emeritus 1972-2012.
Doctor of Philosophy - Sociology

Plan Description

The Doctor of Philosophy – Sociology offers programs designed for both students holding a bachelor’s degree in sociology or a closely related discipline who have a strong record of academic success, are likely to be highly successful in graduate school, and who have a professional interest in, and commitment to, earning a doctorate in sociology and for students who have already earned a master’s degree in sociology or a closely related discipline, and who can demonstrate evidence of substantial expertise in sociology. This program trains students in advanced sociological concepts and applications, as well as advanced theoretical and methodological frameworks for conducting original research. In addition, students develop at least 2 advanced areas of specialization from among the department’s core areas of specialization. Sociology doctoral students also have the opportunity to participate in our pedagogy and postsecondary teacher training program. Graduates of this program are well prepared for academic research and teaching positions, as well as careers in applied and community sociology.

Educational outcomes for our doctoral program include: development of expertise in both classical and contemporary sociological theories, mastery of both quantitative and qualitative research methods and data analysis, development of specialized expert knowledge in at least two substantive areas, professional socialization, participation in professional organizations, oral presentation skills, familiarity with the process of academic publication of original research, and cultivation of analytical research and writing skills which culminate in the ability to author an original doctoral dissertation of substantial depth and quality. Graduate-level course work in sociology is restricted to students with graduate standing or graduate provisional status in the department, or to those students who have obtained prior written consent from instructors of specific courses in which enrollment is sought and from the graduate coordinator. Please refer to the Sociology Graduate Student Handbook for additional updated information, policies, and procedures.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

2. Applicants to the Post-Bachelor’s track must hold a bachelor’s degree in sociology from a regionally accredited institution (required). Applicants to the Post-Master’s track must hold a master’s degree in sociology, or an equivalent master’s degree, from an accredited institution in which you wrote and successfully defended a master’s thesis.

3. Applicants must submit the following to the Sociology department:
   a. Satisfactory scores that are less than 5 years old on the general Graduate Record Examination (GRE).
   b. At least 3 letters of recommendation, preferably from faculty members who know the student’s work, evaluating the student’s ability to perform at the Ph.D.-level of study. These should include comments on the student’s academic performance, motivation, character, and promise for success in the Ph.D. program.
   c. A statement of purpose, written by the applicant that evidences all of the following: writing skills, professionalism, educational and professional/career objectives, and specific areas of interest in sociology generally, and in the UNLV Department of Sociology specifically.
   d. Writing Samples:
      i. Post-Bachelor’s applicants: Two original writing samples of substantial length and quality that indicate student’s writing and analytical skills, as well as sociological knowledge.
      ii. Post-Master’s applicants: M.A.-level thesis or at least two original papers of substantial length and quality in an area of sociological inquiry solely written by the applicant.

If you are interested in applying for a Graduate Assistantship, please be sure to indicate this in your written statement, and complete and submit the Graduate Assistantship online application.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s Track
Total Credits Required: 72

Course Requirements

Required Courses – Credits: 20

- SOC 701 - Logic of Social Inquiry
- SOC 702 - Quantitative Methods
- SOC 704 - Advanced Analytical Techniques
Elective Courses – Credits: 12
Complete 12 credits of elective coursework. Up to 3 credits can be flex credits and at least 9 credits must be SOC 700-level.

Professional Paper – Credits: 3
• SOC 794 - Professional Paper
  After successfully completing the requirements above, students are eligible to earn the Master of Arts – Sociology.

Advanced ProSeminar Course – Credits: 1
• SOC 708 - Proseminar II

Elective Courses – Credits: 24
Complete 24 credits of elective coursework. Identify 2 areas of specialization among the department’s core areas of study, and complete a minimum of 6 credits in each area. Up to 6 credits can be flex credits and at least 18 credits must be SOC 700-level.

Dissertation – Credits: 12
• SOC 799 - Dissertation

Degree Requirements
1. Of the 60 required course credit hours, a maximum of 9 hours may be used as flex credits toward any combination of the following: Independent Study; Directed Reading; an approved 600-level Sociology course that is unavailable at the 700 level; and/or an approved 700 level course in a related discipline.

2. A minimum of 63 credits must be completed in 700-level Sociology courses, including dissertation credits.

3. Students are strongly encouraged to enroll in SOC 709 – Learning to Teach Sociology. Doctoral students who have completed their comprehensive exams and SOC 709 may be eligible for autonomous teaching. Doctoral students teaching their own autonomous courses must be simultaneously enrolled in SOC 710 – Teaching Practicum, Teaching Practicum; after one semester of taking SOC 710 for credit, graduate student instructors may audit the class.

4. Any grade below a B will not be accepted for graduate credit. A grade below a B will result in probation. If a student receives two grades below a B, in the same or different courses, s/he will be separated from the program.

5. A student may be on academic probation a maximum of two times during their graduate career in Sociology; a third probation will result in separation from the program.

6. No student shall be allowed more than 2 simultaneous grades of Incomplete, except in the case of documented and approved emergency or medical leave.

7. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

8. Post-Bachelor’s students must complete 3 credits of Professional Paper before defending their Professional Paper and submitting it to a reputable sociology journal for peer review. Students will establish an Examination Committee, hold a professional paper proposal meeting, author and defend an original piece of research or theory which is then signed-off on by committee members and submitted for peer-review to a reputable sociology journal. The paper need not be accepted for publication for the student to continue matriculating in the program, but the manuscript must make a significant scholarly contribution and be of a high enough quality to merit peer review.

1. Students must orally present and defend their completed professional paper to her or his Examination Committee, and receive majority approval. There are five possible grades for the professional paper: Pass with Distinction; Pass; Conditional Pass with Rewrites (to be completed within two weeks of notification); Terminal Pass (pass but separated from program after graduation); or Fail.

2. After a successful defense of their professional paper, students must receive signatures of support from their Committee Chair and a majority of other Committee members prior to submitting their article manuscript to an approved peer-review sociology journal.

3. Students may complete this stage of the program only after successfully completing all 20 required credits, as well as a minimum of 12 credits of electives (including up to 3 flex credits).

4. Students may not take any comprehensive exams or complete more than 40 course credits before successfully completing this step in the program.

5. Students who do not successfully complete this requirement in a timely manner (before completing 40 credits) will be placed on probation.
6. After successful completion of all required courses (a minimum of 32 total course credits), 3 credits of professional paper, and this professional paper process (proposal, research, writing, oral defense and journal submission), students must submit all required paperwork to the Graduate College for completion of the Master of Arts in Sociology.

9. Post-Bachelor’s students who, for personal, professional or academic reasons, decide not to continue on for a Ph.D. may be eligible for an optional exit plan with a Masters degree.

10. Dissertation credits may only be taken after the student successfully defends his/her dissertation prospectus and submits required paperwork to the Graduate College. Students may not take more than 6 dissertation credits per semester.

11. In addition to a minimum of 60 hours of course work, 12 hours of dissertation credits, and successful completion of the professional paper process as described above, a doctoral student must successfully pass 2 comprehensive examinations in their chosen areas of specialization. Students should refer to the detailed guidelines governing the comprehensive exam process in the Graduate Programs Handbook (see Appendix 1).

12. The Area of Specialization comprehensive exams will be offered once a semester; students may only take 1 of these exams per semester. Intention to take a comprehensive exam must be given to the graduate coordinator and senior management assistant by the second week of the semester in which students intend to take the exam.

13. Students may not take a comprehensive exam until they have completed all required course work in these areas.

14. These specialty area comprehensive exams should reflect logical and substantive depth and breadth of knowledge of these areas. Students are expected to prepare for the comprehensive exams by reviewing class materials, meeting with their Graduate Advisory Committee, meeting with faculty sitting on the Areas of Specialization committees, looking at copies of old exams, and doing systematic independent preparation.

15. There are 4 possible grades for the comprehensive exams: Pass with Distinction; Pass; Conditional Pass with Rewrites (to be completed within two weeks of notification); or Fail.

16. A student must retake a failed comprehensive exam within one semester and successfully pass on the second attempt in order to remain in the program. A second failure in the same area will result in separation from the program. During the period of time between the initial Fail on a comprehensive exam and the re-take, the student may not take any other comprehensive exams.

17. Both comprehensive exams must be completed prior to the student’s dissertation prospectus defense and advancement to candidacy.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for both the Master’s and Doctoral portions of the program.

2. Doctoral students are required to complete a minimum of 12 credits of dissertation credits: SOC 799 - Dissertation, write an original dissertation of substantial quality and length on a sociological topic, and successfully defend this work in front of the student’s Graduate Advisory Committee.

   1. Students must work with their Graduate Advisory Committee to ensure quality research, analysis and writing of the comprehensive exams and dissertation.

   2. Satisfactory performance on an oral defense of the dissertation prospectus to be held after the successful completion of all course work and the four comprehensive examinations is required. The oral defense will cover the student’s dissertation proposal and any deficiencies on the comprehensive exams or in the student’s program of study. Upon successful completion of the oral defense of the dissertation prospectus, the student may advance to candidacy and enroll in dissertation credits.

   3. Upon completion of the dissertation, a final oral defense will be held in front of the student’s Graduate Advisory Committee.

   4. Committee members must unanimously pass the student on her or his oral defense for the Ph.D. to be conferred.

   3. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

   4. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Post-Masters Track

Total Credits Required: 51
Course Requirements

Required Courses – Credits: 21

- SOC 701 - Logic of Social Inquiry
- SOC 702 - Quantitative Methods
- SOC 704 - Advanced Analytical Techniques
- SOC 705 - Qualitative Methods
- SOC 707 - Proseminar I
- SOC 708 - Proseminar II
- SOC 723 - Classical Sociological Theory
- SOC 724 - Issues in Contemporary Sociological Theory

Advanced Theory Course – Credits: 3

Complete one of the following courses:

- SOC 725 - Seminar in Pragmatist Hermeneutics
- SOC 726 - Current Debates in Social Theory
- SOC 737 - Seminar in Criminological Theories
- SOC 746 - Seminar in Organizational Theory and Problems
- SOC 756 - Urban Theory: Culture and Community
- SOC 763 - Symbolic Interaction
- SOC 766 - Sociology of Culture
- SOC 774 - Seminar in Feminist Theories and Research
  SOC 795A - Seminar on Postmodernism
  SOC 795B – Seminar on Critical Theory
- WMST 701 - Feminist Theory

Advanced Research Methods Course – Credits: 3

Complete one of the following courses:

- SOC 706 - Seminar in Advanced Statistical Analysis in the Social Sciences
- SOC 717 - Urban Demography and Population Studies
- SOC 757 - Urban Field Methods
- SOC 767 - Visual Sociology: Image, Media, Culture
- SOC 771 - The Virtual Society
- WMST 702 - Principles of Feminist Inquiry
- HIST 750 - Methods for the Study of Public History
- HIST 752 - Modern Archives: Theory and Methodology

Elective Courses – Credits: 12

Complete 12 credits of elective coursework. Identify 2 areas of specialization among the department’s core areas of study, and complete a minimum of 6 credits in each area.

Up to 6 credits can be flex credits and at least 6 credits must be SOC 700-level.

Dissertation – Credits: 12

- SOC 799 - Dissertation

Degree Requirements

1. Of the 12 elective credit hours, a maximum of 6 hours may be used as flex credits toward any combination of the following: Independent Study; Directed Reading; an approved 600-level Sociology course that is unavailable at the 700 level; and/or an approved 700 level course in a related discipline.

2. A minimum of 45 credits must be completed in 700-level Sociology courses, including dissertation credits.

3. Students are strongly encouraged to enroll in SOC 709 - Learning to Teach Sociology. Doctoral students who have completed their comprehensive exams and SOC 709 may be eligible for autonomous teaching. Doctoral students teaching their own autonomous courses must be simultaneously enrolled in SOC 710 - Teaching Practicum, Teaching Practicum; after one semester of taking SOC 710 for credit, graduate student instructors may audit the class.

4. Any grade below a B will not be accepted for graduate credit. A grade below a B will result in probation. If a student receives two grades below a B, in the same or different courses, s/he will be separated from the program.

5. A student may be on academic probation a maximum of two times during their graduate career in Sociology; a third probation will result in separation from the program.

6. No student shall be allowed more than 2 simultaneous grades of Incomplete, except in the case of documented and approved emergency or medical leave.

7. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

8. Dissertation credits may only be taken after the student successfully defends his/her dissertation prospectus and submits required paperwork to the Graduate College. Students may not take more than 6 Dissertation credits per semester.

9. In addition to a minimum of 39 hours of course work and 12 hours of dissertation credits, a doctoral student must successfully pass 2 comprehensive examinations in their chosen areas of specialization. Students should refer to the detailed guidelines governing the comprehensive exam process in the Graduate Programs Handbook. (See Appendix 1).
1. The Area of Specialization comprehensive exams will be offered once a semester; students may only take 1 of these exams per semester. Intention to take a comprehensive exam must be given to the graduate coordinator and senior management assistant by the second week of the semester in which students intend to take the exam.

2. Students may not take a comprehensive exam until they have completed all required course work in these areas.

3. These specialty area comprehensive exams should reflect logical and substantive depth and breadth of knowledge of these areas. Students are expected to prepare for the comprehensive exams by reviewing class materials, meeting with their Graduate Advisory Committee, meeting with faculty sitting on the Areas of Specialization committees, looking at copies of old exams, and doing systematic independent preparation.

4. There are 4 possible grades for the comprehensive exams: Pass with Distinction; Pass; Conditional Pass with Rewrites (to be completed within two weeks of notification); or Fail.

5. A student must retake a failed comprehensive exam within one semester and successfully pass on the second attempt in order to remain in the program. A second failure in the same area will result in separation from the program. During the period of time between the initial Fail on a comprehensive exam and the re-take, the student may not take any other comprehensive exams.

6. Both comprehensive exams must be completed prior to the student’s dissertation prospectus defense and advancement to candidacy.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

2. Doctoral students are required to complete a minimum of 12 credits of dissertation credits: SOC 799 – Dissertation, write an original dissertation of substantial quality and length on a sociological topic, and successfully defend this work in front of the student’s Graduate Advisory Committee.

3. Students must work with their Graduate Advisory Committee to ensure quality research, analysis and writing of the comprehensive exams and dissertation.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
SOC 603 - Techniques of Social Research Credits 4
Introduction to research design, data gathering techniques, and sociological analysis of data. Notes: This course is crosslisted with SOC 403. Credit at the 600-level requires additional work.

SOC 603L - Techniques of Social Research Lab Credits 0
This undergraduate course may be used in the graduate program of study with the approval of the advisor. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

SOC 604 - Statistical Methods in the Social Sciences Credits 4
Study and practice with statistical methods especially useful in the presentation and interpretation of social work, psychological, sociological, and educational data. Notes: This course is crosslisted with SOC 404. Credit at the 600-level requires additional work.

SOC 604L - Statistical Methods in the Social Sciences Lab Credits 0
This undergraduate course may be used in the graduate program of study with the approval of the advisor. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

SOC 607 - Environment and Society Credits 3
Focuses on the conflict between private rights and the public interest and the extent to which this conflict affects society in the environmental arena. Notes: This course is crosslisted with SOC 407. Credit at the 600-level requires additional work.

SOC 608 - Qualitative Research Credits 3
Examination of the modes of observation, recording and reporting of the daily way of life of another (sub) culture studied by physical and perspectival closeness. Notes: This course is crosslisted with SOC 408. Credit at the 600-level requires additional work.

SOC 610 - Sociology of Aging Credits 3
Explores the problems of aging in various cultures. Notions such as the social construction of growing old, the myth of youth, and the crisis of retirement discussed along with other topics of aging. Notes: This course is crosslisted with SOC 410. Credit at the 600-level requires additional work.

SOC 612 - Sociology of Art Credits 3
Investigation into the complex relationship between social systems and their artistic outputs. Emphasis on social theory, especially the sociology of knowledge. Subjects include artistic employment, craft to art conversions, and art in relation to religion and science. Notes: This course is crosslisted with SOC 412. Credit at the 600-level requires additional work.

SOC 613 - Sociology of Sport Credits 3
Examination of the relationship of sport to societal institutions and processes. Behavior of fans, athletes, and sport organizations analyzed from a sociological view. Notes: This course is crosslisted with SOC 413. Credit at the 600-level requires additional work.

SOC 614 - Popular Culture Credits 3
Different types of culture, the democratization of values, the organization of tastes. Characteristic forms of popular culture: music, cinema, the electronic media, the print media, outdoors, travel, and the graphic arts. Notes: This course is crosslisted with SOC 414. Credit at the 600-level requires additional work.

SOC 615 - World Population Problems Credits 3
Examination of world and U.S. problems connected to rapid population growth, legal and illegal immigration, causes of sickness and death, and the impact of government population policies. Problems include changes in family size, mandatory sterilization, abortion, food as a political weapon, crime, and minority groups. Notes: This course is crosslisted with SOC 415. Credit at the 600-level requires additional work.

SOC 616 - Sociology of Work and Occupations Credits 3
Comparative examination of work in industrial society. Topics analyzed include labor markets, job satisfaction, occupational choice, and the leisure-work relationship. Notes: This course is crosslisted with SOC 416. Credit at the 600-level requires additional work.

SOC 621 - Classical Social Theory Credits 3
Major social theorists of the nineteenth and early twentieth centuries whose works have led to the development of sociology as a distinct discipline. Includes Durkheim, Marx, Simmel, and Weber. Notes: This course is crosslisted with SOC 421. Credit at the 600-level requires additional work.

SOC 622 - Contemporary Sociological Theory Credits 3
Major theorists and important schools of thought in contemporary sociology. Includes some or all of the following: structural functionalism, conflict theory, symbolic interactionism, ethnomethodology. Notes: This course is crosslisted with SOC 422. Credit at the 600-level requires additional work.

SOC 627 - Comparative Racial and Ethnic Relations Credits 3
Surveys racial and ethnic relations in different societies around the world, including the United States. Special attention given to structures of inequality and to social movements for racial justice and equality. Notes: This course is crosslisted with SOC 427. Credit at the 600-level requires additional work.

SOC 628 - Special Topics in Comparative Societies Credits 3
Comparative analysis of some salient aspects of U.S. society and societies around the world. Focuses on socialization, cultural and structural aspects (e.g., ethnicity, religion, economy, politics, gender, age), and informal modes of living. Specific focus varies with special topics offered. Notes: This course is crosslisted with SOC 428. Credit at the 600-level requires additional work.

SOC 629 - Globalization: Economic, Political, and Cultural Perspectives Credits 3
Addresses the nature of globalization, and the degree to which it differentially impacts people in various geographical regions and social strata. Traces the extent to which economic, political, and cultural systems rooted in nation-states during most of the twentieth century are likely to be replaced by emerging global institutions. Notes: This course is crosslisted with SOC 429. Credit at the 600-level requires additional work.

SOC 631 - Crime and Criminal Behavior Credits 3
General survey of the field of criminology emphasizing social efforts to understand, explain, and deal with criminal behavior. Notes: This course is crosslisted with SOC 431. Credit at the 600-level requires additional work.

SOC 641 - Social Inequality Credits 3
Analysis of causes and consequences of inequalities in wealth, prestige, and power in social life. Emphasis placed on the American class system, and inequalities of race, ethnicity, gender, and age also covered. Notes: This course is crosslisted with SOC 441. Credit at the 600-level requires additional work.

SOC 642 - Sociology of Gambling Credits 3
Analysis of patterns of participation in various forms of gambling; political/economic background of gambling; effects of gambling on communities, lifestyles, and value systems. Notes: This course is crosslisted with SOC 442. Credit at the 600-level requires additional work.

SOC 643 - Urban Sociology Credits 3
Analysis of the urban way of life, with attention to ecological and social characteristics of the city, urban problems, and trends in urban growth. Emphasis given to American society. Notes: This course is crosslisted with SOC 443. Credit at the 600-level requires additional work.

SOC 645 - Men in Society Credits 3
Issues and problems of men in a society characterized by rapidly changing and ill-defined male gender roles. Perspectives from micro- and macrosociology. Varying branches of the 'men's movement' examined. Notes: This course is crosslisted with SOC 645. Credit at the 600-level requires additional work.
SOC 647 - Marriage and the Family  Credits 3
Study of the institutions of marriage and the family and analysis of various factors and forces affecting the family. Emphasis upon present trends. Notes: This course is crosslisted with SOC 447. Credit at the 600-level requires additional work.

SOC 649 - Sex and Social Arrangements  Credits 3
Examination of human sexuality in social contexts. Emphasis on cross-cultural and historical comparisons with themes dealing with deviation, pornography, and homosexuality. Notes: This course is crosslisted with SOC 449. Credit at the 600-level requires additional work.

SOC 651 - Russian Society in Transition  Credits 3
Sociological survey of Russian society in transition. Reviews major Soviet institutions and examines current attempts to transform Russian society. Special attention to the origins of glasnost and preestroika and the difficulties that the former Soviet Union faces in reforming its communist system and building democracy and a market economy. Notes: This course is crosslisted with SOC 451. Credit at the 600-level requires additional work.

SOC 653 - Gender and Society  Credits 3
Examines the social construction of gender across a range of institutional, interactional, and cultural contexts. Emphasis is on the intersection of gender with race, ethnicity, social class and sexuality. Notes: This course is crosslisted with SOC 453. Credit at the 600-level requires additional work.

SOC 655 - Social Movements and Social Change  Credits 3
Sociological understanding of social movements and social change. Focuses on movements in the United States and around the world struggling over issues such as ethnicity, race, religion, and civil rights. Introduces theories and concepts about social movements emphasizing historical and cultural context, movement formation, organization, participants, ideology, and effects. Notes: This course is crosslisted with SOC 455. Credit at the 600-level requires additional work.

SOC 658 - Sociology of Mental Health  Credits 3
Drawing on sociological theories and research, examines how various social forces shape experiences, symptoms, patterns of help-seeking, diagnoses, treatments, and prognoses of mental disorders by comparing those across various U.S. social classes, ethnic, gender, and age groups as well as in a global context. Notes: This course is crosslisted with SOC 458. Credit at the 600-level requires additional work.

SOC 659 - Social Dilemmas of Climate Change  Credits 3
Sociological understanding of climate change. Focuses on social, economic, organizational, and cultural dilemmas of global climate transformation, including: carbon-based production and consumption patterns, population growth, health effects, migration patterns, inequalities and social conflicts, and cultural perceptions of climate. Notes: This course is crosslisted with SOC 459. Coursework at the 600-level requires additional work.

SOC 660 - Critical Sociology  Credits 3
Acquaints the student with a body of theoretical and empirical work variously designated as critical, new, or radical sociology.

SOC 665 - Collective Behavior  Credits 3
Examines how people cope with unexpected or threatening events. Emphasis placed on developmental sequences and communication processes involved in social movements, crowds, and public issues.

SOC 666 - Sociology of Medicine  Credits 3
Analyzes the medical profession and delivery of health care. Medical education, medicine as social control, ethical issues, and the management of medical knowledge examined. Notes: This course is crosslisted with SOC 466. Credit at the 600-level requires additional work.

SOC 670 - Sociology of Deviance  Credits 3
Examines various themes of deviance and the making and breaking of norms, the creation of deviant identities and subcultures, and the relationship between deviance and society. Topics sometimes covered include white collar crime, prostitution, homosexuality, drug and alcohol abuse, and violence. Notes: This course is crosslisted with SOC 470. Credit at the 600-level requires additional work.

SOC 671 - Race and Ethnic Relations in America  Credits 3
Analysis of inter-and intra-group conflicts associated with racial, ethnic, and socio-cultural differences. Attention to both structural and symbolic forms of domination and oppression and to the effects of prejudice and discrimination on all members of society. Special attention given to social movements for justice and equality. Notes: This course is crosslisted with SOC 471. Credit at the 600-level requires additional work.

SOC 674 - Sociology of Religion  Credits 3
Critical study of the reciprocal relations of religion, culture, and society. Social sources of religious concepts, religious differentiation, and institutionalization, and the effect upon individual and group behavior. Notes: This course is crosslisted with SOC 474. Credit at the 600-level requires additional work.

SOC 675 - Political Sociology  Credits 3
Multiple dimensions and uses of power in society: development and resolution of public issues, political socialization, covert manipulation, and political movements. Notes: This course is crosslisted with SOC 475. Credit at the 600-level requires additional work.

SOC 676 - Sociology of Education  Credits 3
Application of sociological theory to the social institution of education. Primary attention directed toward the social organization of educational systems. Draws upon research from a variety of fields. Notes: This course is crosslisted with SOC 476. Credit at the 600-level requires additional work. Does not meet undergraduate professional education requirement.

SOC 678 - Women and Society  Credits 3
Theoretical framework for understanding sexism in our society as a problem of socio-political structure rather than as a problem of individual ideology and bias. Notes: This course is crosslisted with SOC 478. Credit at the 600-level requires additional work.

SOC 682 - Aging and Social Policy  Credits 3
Social policy responses to the problems of aging. Emphasis on political, economic, and social contexts underlying policy responses to aging from both historical and contemporary perspectives. Notes: This course is crosslisted with SOC 482. Credit at the 600-level requires additional work.

SOC 684 - Sociology of Death and Dying  Credits 3
Examines the process of dying; emphasis placed on managing grief, the role of the dying patient, prolonging life, and the funeral industry. Notes: This course is crosslisted with SOC 484. Credit at the 600-level requires additional work.

SOC 697 - Special Topics in Sociology  Credits 3
Offered irregularly with content not otherwise available in the department’s curriculum. Opportunity for students and instructor to explore new dimensions and unrepresented areas of sociology. Three credits per course. Notes: This course is crosslisted with SOC 497. Credit at the 600-level requires additional work.

SOC 698 - Logic of Social Inquiry  Credits 3
Advanced introduction to theoretical and methodological approaches in contemporary sociology and their interrelationship. Emphasis on three major paradigms in contemporary sociological research, their assumptions, operational strategies and policy implications. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of graduate coordinator.

SOC 702 - Quantitative Methods  Credits 3
In-depth review of procedures and issues associated with research design, measurement, sampling, and questionnaire construction in the conduct of survey research, experimentation, and other quantitative research techniques utilized by sociologists. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of graduate coordinator.
SOC 704 - Advanced Analytical Techniques Credits 4
Advanced data base creation and analysis including study of appropriate statistics, mainframe computer experience with mass data software, analytical techniques with varying methodologies, data modelling. Notes: May be repeated to a maximum of eight credits. Prerequisites: Consent of graduate coordinator.

SOC 705 - Qualitative Methods Credits 3
Gives students in-depth training in a variety of qualitative methods, both traditional and new (participant observation, latent content analysis, semiotics, deconstruction, conversation analysis, feminist methodology and critique, etc.). Explores both the theoretical justifications of each method and gives a hands-on experience in their various applications. Notes: May be repeated to a maximum of six credits. Prerequisites: SOC 701, consent of graduate coordinator.

SOC 706 - Seminar in Advanced Statistical Analysis in the Social Sciences Credits 3
Examines current approaches to statistical modeling of discrete outcomes. Includes loglinear modeling, logistic regression, and event history analysis. Emphasis on mathematical specification of these approaches, usage of software packages for model estimation and interpretation of results. Prerequisites: SOC 702, SOC 704, and consent of instructor.

SOC 707 - Proseminar I Credits 1
Course in professional socialization and introduction to graduate program in Sociology. Learn skills necessary for successful matriculation in the graduate program and in academia. Topics include: introduction to faculty research; review of program stages and requirements; conference participation; publishing; CV building. Prerequisites: Consent of instructor.

SOC 708 - Proseminar II Credits 1
Course in professional socialization. Topics include: conference presentations, comprehensive exam preparation, abstract construction, scholarly writing and publishing, CV building, professional networking, and job market skills. Notes: Required for doctoral students; recommended for master's students. Prerequisites: ProSeminar I or consent of graduate coordinator.

SOC 709 - Teaching Sociology Credits 3
Provides a key link for future teaching sociologists, assisting them to make the switch from consumers to educators of the sociological perspective. Places equal emphasis on theoretical issues surrounding teaching with the everyday logistical details of effectively managing a university classroom. Prerequisites: Graduate standing.

SOC 710 - Teaching Practicum Credits 1
Sociology graduate students teaching autonomous classes are required to take this course. Topics covered include: applied pedagogical theory, student learning styles, assignment and test construction, grading, teaching technologies, and creative strategies for teaching particular sociological theories, methodologies and concepts. Notes: May be repeated to a maximum of two credits. Prerequisites: SOC 709 or consent of graduate coordinator.

SOC 714 - Seminar in Work and Occupations Credits 3
Examination of occupations and the concept of work from the perspective of contemporary sociological research. Notes: Selected topics of work and occupations announced each semester. May be repeated to a maximum of six credits. Prerequisites: Consent of instructor or graduate advisor.

SOC 717 - Urban Demography and Population Studies Credits 3
Training in quantitative techniques used by researchers in urban population studies. Students will become familiar with available sources of data, the measures of population composition and change, and will receive practical training on how to conduct their own research. Prerequisites: SOC 702, SOC 704 and SOC 711.

SOC 719 - Seminar in Deviance and Disorganization Credits 3
Selected topics of deviance and disorganization with specific topics to be announced each semester.

SOC 723 - Classical Sociological Theory Credits 3
In-depth analysis of the major figures in classical sociological theory. Primary focus on the works of Marx, Weber, Durkheim and Mead, supplemented by a brief discussion of other significant theorists (Comte, Spencer, Simmel, etc.). Prerequisites: Consent of graduate coordinator.

SOC 724 - Issues in Contemporary Sociological Theory Credits 3
Examines major issues in contemporary sociological theory. Prerequisites: SOC 723 and consent of graduate coordinator.

SOC 725 - Seminar in Pragmatist Hermeneutics Credits 3
Sociological examination of interpretation theory, its historical development, and contemporary applications. Traces the evolution of key ideas from ancient philosophy and biblical exegesis to pragmatist semiotics that moved hermeneutics beyond its traditional preoccupation with texts and toward the embodied, emotionally laden forms of signification. Prerequisites: SOC 701, SOC 723 and SOC 724 or consent of instructor.

SOC 726 - Current Debates in Social Theory Credits 3
Advanced seminar in social theory. Includes a series of approximately three to four debates and/or new perspectives in current social theory literature. In-depth analysis of most up-to-date ideas and issues in social theory. Notes: Different topics covered each time course offered. Prerequisites: SOC 701, SOC 723, SOC 724 or consent of instructor.

SOC 733 - Advanced Social Documentation: Las Vegas Credits 3 or 6
Application of multiple theories and methods of social documentation and community studies. Students read classic works of social documentation, as well as conduct their own field research projects in and around Las Vegas utilizing multiple means of documentation, including ethnography, digital imaging, social mapping, GIS, and interviews. Grading: Letter grade. Prerequisites: Graduate standing and consent of instructor.

SOC 741 - Graduate Seminar in Social Stratification Credits 3
Analyzes the major systems of stratification including, but not limited to, race, class, and gender. Emphasis on U.S. and examines interrelationships among the various forms of social inequality. Prerequisites: Graduate standing.

SOC 742 - Sociology of Gambling Credits 3
Provides sophisticated understanding of sociological perspectives of gambling. Recreational gambling behaviors among a variety of subpopulations examined. Phenomenon labeled as “problem gambling” by medical experts also explicitly addressed as well as legislative attempts to confront social costs. Prerequisites: Graduate standing or consent of instructor.

SOC 743 - Seminar in Urbanism and Urbanization Credits 3
Specific topics announced each semester. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor or graduate advisor.

SOC 745 - The Family-Work Nexus Credits 3
Examines integral, changing relationship between family and work, emphasizing systematic connection between the two. Includes linkages between work and family; socially constructed gender inequality through work and family activities; and work and family interconnections and conflicts within families whose interests vary. Prerequisites: Graduate standing.

SOC 746 - Seminar in Organizational Theory and Problems Credits 3
Specific theories and topics announced each semester. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor or graduate advisor.

SOC 747 - Seminar in Marriage and the Family Credits 3
Specific topics announced each semester. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor or graduate advisor.
SOC 748 - Gender, Sex, Society  
Advanced survey course and seminar on the sociology of gender, sex and sexuality. How does the sex/gender system operate within and through social structures? How are gender/sexuality socially constructed? Examines these questions and ways in which gender/sexuality are historically shaped and intertwined. Prerequisites: Graduate standing.

SOC 750 - Seminar in the Sociology of Sex  
Surveys main theories and debates in sociology of sex and sexuality. Examines sex in relation to economic, cultural, political, international and historical contexts, and in relation to gender, class and racial systems of stratification. Prerequisites: Graduate standing.

SOC 751 - International Issues: Gender, Sex, Globalization  
Addresses multicultural feminisms, globalization, human/women’s rights, and workings of sex/gender systems in various regions of the world. Prerequisites: Graduate standing.

SOC 752 - Global Migrations  
Seminar examining immigration to the United States. Evaluates structural factors that compel people to cross international boundaries, integration and settlement, and responses to such migratory patterns. Focus placed on immigrant labor, undocumented status, laws and policies, settlement and integration, gender, and new directions in immigration research.

SOC 753 - Racial Justice and Latina/os  
Seminar exploring the socio-historical and contemporary experiences of Latina/os in the United States. Topics include the role of Latina/os in the global economy, ethnic identity, social-demographics patterns, social integration, and political implications of the above. Emphasis is placed on social justice.

SOC 755 - Social Movements and Social Change  
Provides deep, critical understanding of the presumptions, purposes, limitations, and special strengths of sociological theorizing or social movements and social change. Emphasis on questions about social movements and their historical context and movement formation, organization, careers, participants, ideology and effects. Prerequisites: Graduate standing.

SOC 756 - Urban Theory: Culture and Community  
Critical examination and evaluation of sociological theories about urban cultures and communities in light of recent literature, findings, and students’ own observations. Prerequisites: SOC 701

SOC 757 - Urban Field Methods  
Training in methods for conducting qualitative research in urban settings. These include participant observation, interviewing, archival narrative analysis, and visual studies. Students will conduct their own research and discuss their emerging findings. Prerequisites: SOC 705 and SOC 756

SOC 763 - Symbolic Interaction  
Symbolic interaction from the traditional ideas of Mead to the postmodern versions of interactionism. Approaches derived from phenomenology, existential sociology, labeling, ethnomethodology, dramaturgy, feminist interactionism, and postmodernism covered. Pays particular attention to the self. Prerequisites: Graduate standing.

SOC 764 - Seminar in Social Psychology  
Specific topics announced each semester.

SOC 766 - Sociology of Culture  
Broad introduction in field of cultural sociology --its historical development, different theories and methods, definition and analytical problems. Prerequisites: Graduate standing.

SOC 767 - Visual Sociology: Image, Media, Culture  
Role of the visual in sociology as well as sociology of the visual. Addresses issues of visual research methods as well as reviewing theories of images, media and culture. Studies interplay between historical and contemporary social aspects of production and consumption of visual culture. Prerequisites: Graduate standing.

SOC 768 - Environmental Sociology  
Provides deep, critical understanding of macro-sociological dimensions of environment-society relationship. Emphasis given to sociological approaches to the ideology of environmental domination, capitalist economy and environmental sustainability, rationality and nature, and ecological social movements. Prerequisites: Graduate standing.

SOC 769 - Ecology, Culture, Social Psychology  
Explores reciprocal influences between ecology, culture, and social psychological dynamics. Examines relation between landscapes and mindscapes, implications of cultural constructions of nature for interactions with/in the natural environment and routine social psychological dynamics, ecological identity, and contours of an ecocentric perspective. Prerequisites: Graduate standing.

SOC 770 - Racial and Ethnic Relations  
Historical and contemporary studies of racial and ethnic relations, both in the US and around the world. Emphasis placed on contemporary theoretical and ethnographic work.

SOC 771 - The Virtual Society  
This course examines the scholarship on the digitalization of society and computer-mediated communication, focusing especially on the psychological, interactional, cultural, and economic impacts of virtualization. Prerequisites: SOC 701

SOC 773 - Seminar in Drug Use and Abuse  
Specific topics announced each semester.

SOC 774 - Seminar in Feminist Theories and Research  
Current issues in feminist theories and research and feminist critiques of social sciences. Discussions of theoretical as well as epistemological and methodological issues. Prerequisites: Consent of instructor and graduate standing.

SOC 776 - Seminar in Political Sociology  
Explores relations between states and social institutions such as social classes, interest groups, and systems of cultural and material production and reproduction. Covers issues such as theories of the state, political behavior, and frameworks for the development of solutions to various contemporary problems. Same as: (EPS 749) Prerequisites: Graduate standing.

SOC 779 - Seminar in Sociology of Aging  
Specific topics announced each semester.

SOC 780 - Aging and Social Policy  
Current issues in public policy in the sociology of aging. Examines the development of policies regarding aging in specific domains (e.g. labor force, retirement, income security, health care); assesses debates on society’s risks and responsibilities for elders; and considers impact of history, demographic change, place, and heterogeneity of elders on resource allocation and the lives of elders, families, and communities. Prerequisites: Graduate standing.

SOC 790 - Sociological Internship  
Supervised internships in community organizations providing experience in administration, planning, and research. Placements concentrate on the organization and operation of agencies rather than on direct delivery of client services. Notes: May be repeated to a maximum of six credits. One to four credits per semester. Prerequisites: Consent of field experience coordinator.

SOC 791 - Field Experience in Sociology  
Supervised internships in community organizations providing experience in administration, planning, and research. Placements concentrate on the organization and operation of agencies rather than on direct delivery of client services. Notes: May be repeated to a maximum of six credits. One to four credits per semester. Prerequisites: Consent of field experience coordinator.
SOC 794 - Professional Paper
Research, analysis, writing and editing for students submitting a Professional Paper as the culminating experience in the M.A. program, or for students submitting an article for publication as required in the B.A. to Ph.D. program track. Notes: Only three credits may count toward degree. Prerequisites: SOC 711 or SOC 712, and SOC 704, SOC 705, SOC 724 and consent of graduate coordinator.

SOC 795 - Seminar
Specific topics announced each semester. Notes: May be repeated to a maximum of nine credits (contingent on enrollment in different seminar topics).

SOC 796 - Directed Readings
Supervised readings on special topics selected in consultation with a sociology graduate faculty member. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

SOC 797 - Independent Study
Consultation course consisting of individual student effort under guidance of instructor. Students assigned to or request assignment to specific problems in sociology on the basis of interest and preparation. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

SOC 798 - Thesis
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits applied to the student’s program. Grading: S/F grading only.

SOC 799 - Dissertation
Research, analysis, and writing toward completion of the dissertation and preparation for subsequent oral defense. Notes: Students are required to complete twelve credits for their doctoral degree; may register for additional credits but they will not count toward degree. Grading: S/F grading only. Prerequisites: Advancement to candidacy in Sociology Ph.D. program and consent of instructor.

Interdisciplinary Gender and Ethnic Studies
The programs within Interdisciplinary, Gender, and Ethnic Studies (IGES) share a commitment to interdisciplinary scholarship and teaching, critical cultural and social analysis, intersectionality, transnational perspectives, and public engagement. The unit dedicates itself to crossing boundaries and integrating insights from a range of fields, engaging faculty and students in an exchange of learning and service in local communities and abroad. IGES seeks opportunities for collaborative work with partners in the university community and beyond by co-sponsoring events and projects based on a shared vision of social justice, global awareness, and the power of critical analysis linked to social action.

We offer a variety of Interdisciplinary, Gender, and Ethnic Studies degree programs that enable students to take courses in several departments and colleges throughout campus. IDS students create a degree plan that combines their coursework in unique and innovative ways beyond the existing Bachelor of Arts and Bachelor of Science degrees. Students can choose two to three disciplines from throughout campus to design their own personalized plan of study.

Gender, Ethnic, and Area Studies students take an in-depth approach to the critical study of power and identity, in local and global contexts. We provide students with interdisciplinary approaches and research methodologies for studying power relations and intersectionality, i.e. how gender, race, class, sexuality, ethnicity, age, physical ability, and nationality shape the material conditions of peoples’ lives all over the world.

Our classrooms are interactive learning environments that value diversity and multiple perspectives. Our students learn new ways of viewing the world, develop tools for critical thinking, and are empowered to make a difference in the world. Our curriculum provides students with the skills to undertake cutting-edge research on contemporary issues through our core sequence of upper-division courses on theory, research methodologies, and praxis.

Undergraduate degree programs include African-American and African Diaspora Studies, Asian Studies, Latin American Studies, Multidisciplinary Studies, Social Sciences Studies, and Gender and Sexuality Studies. We also offer a variety of minors and certificates, including Latina/o Studies and a Graduate Certificate in Social Justice Studies.

Anne Stevens, Ph.D., Chair
Interdisciplinary Studies Faculty

Director
Revilla, Anita  -  Full Graduate Faculty  Associate Professor; A.B.  Princeton University; M.A. Teachers College, Columbia University; Ph.D., UCLA

Graduate Faculty
Abad, Erika  -  Full Graduate Faculty  Assistant Professor-in Residence;  B.A. DePaul University; Ph.D. Washington State University

Bock, Sheila  -  Full Graduate Faculty  Assistant Professor; B.A., UC Berkeley; M.A., Ohio State University; Ph.D., Ohio State University.

Comella, Lynn  -  Full Graduate Faculty  Assistant Professor; Ph.D., University of Massachusetts, Amherst.

Gauthier, Tim  -  Full Graduate Faculty  Assistant Professor. Ph.d., University of Nevada, Las Vegas.

Johnson, Javon  -  Full Graduate Faculty  Assistant Professor: Ph.D. Northwestern University.

Padoongpatt, Tanachai  Assistant Professor; Ph.D., University of Southern California.

Roth-Johnson, Danielle  -  Associate Graduate Faculty  Assistant Professor-in Residence; Ph.D., Stanford University.

Spencer, Rainier  -  Full Graduate Faculty  Professor.

WMST 601 - Feminist Theories  Credits 3
The following undergraduate course may be used in the graduate program of study with the approval of the advisor. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number.

WMST 607 - Gender and Communication  Credits 3
Introduction to gender research in communication. Studies ways in which language, interpersonal communication, the media, and various social institutions influence conceptions of gender. Notes: This course is crosslisted with WMST 407. Credit at the 600-level requires additional work. Grading: Letter grade

WMST 632A - History of American Women to 1870  Credits 3
Examines the history of women in the United States from the period of European contact to reconstruction. Examines women’s changing roles in the family, work force, politics, and social movements. Examines the historical experience of European colonists, Native Americans, African Americans, and immigrants. Notes: This course is crosslisted with WMST 432A. Credit at the 600-level requires additional work.

WMST 632B - History of American Women Since 1870  Credits 3
Women’s relationship to the economy and to political movements, changing ideals of womanhood, the demographic and sexual revolutions transforming family life and gender roles, and class, race, ethnic, and regional variations in female experience. Notes: This course is crosslisted with WMST 432B. Credit at the 600-level requires additional work.

WMST 672 - Controversies in Gender and Race  Credits 3
Situates selected current topics in historical, social, political, economic, intellectual, and popular culture contexts. Topics may include rape, police profiling, civil rights, reparations for slavery, feminist activism, immigration. Students develop and apply critical thinking, reading, and writing to variety of academic and non-academic situations. Notes: This course is crosslisted with WMST 472. Credit at the 600-level requires additional work.

WMST 673 - Chicana Feminism and Experience  Credits 3
Examines Chicana/Latina experiences as they intersect with race, class, gender, sexuality, and nation. Examines the work of Chicana/ Latina writers, feminists, scholars, performers, artists, filmmakers, and activists. Focuses on issues such as immigration, labor, family, language, education, spirituality, identity, patriarchy, homophobia, and racism. Notes: This course is crosslisted with WMST 473. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

WMST 674 - Gender, Sexuality, and Consumer Culture  Credits 3
Explores theoretical and empirical approaches to consumer culture, with a focus on gender, sexuality, social class, and consumption. Examines the rise of mass consumerism in American society, and the ways social participation, individual identities, subcultural communities, and political life are shaped through varied acts of consumption. Notes: This course is crosslisted with WMST 474. Credit at the 600-level requires additional work.

WMST 675 - Gender, Development, and Globalization  Credits 3
Examines the relationship between women’s position and processes of development and globalization, with a primary focus on Third World women. Considers the interaction of local and global forces in creating change (both positive and negative) and women’s perspectives and activism for promoting social equity. Notes: This course is crosslisted with WMST 475. Credit at the 600-level requires additional work. Prerequisites: Graduate Standing.

WMST 676 - Feminism and Activism  Credits 3
Examines the impact of social, economic, scientific, and political issues on women’s mental and physical health. Includes structural analysis, advocacy, and ethical implications, as well as gender, race, class, and sexuality. Grading: Letter grade Prerequisites: Graduate standing.

WMST 677 - Critical Race Feminism  Credits 3
Explores critical race feminist approaches to race, ethnicity, gender, class, sexuality, language, immigration, and labor. Topics include critical race feminist approaches to race, ethnicity, gender, class, and immigration. Notes: This course is crosslisted with WMST 477. Credit at the 600-level requires additional work.

WMST 684 - Remediation  Credits 3
Intensive study of a major topic in women’s studies. Notes: This course is crosslisted with WMST 484. Credit at the 600-level requires additional work. May be repeated to a maximum of twelve credits.

WMST 685 - Wome in Medieval Culture and Society  Credits 3
Explores medieval women’s experiences as religious leaders, workers, queens, and ladies of the manor, and as mothers, wives and daughters. Special attention paid to women’s voices expressed in letters and autobiography, literature, historical records and art. Notes: This course is crosslisted with WMST 485. Credit at the 600-level requires additional work.

WMST 690 - Special Topics  Credits 3
Explores the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women’s participation in the creation of culture and religion, and the European witch-hunts. Notes: This course is crosslisted with WMST 490. Credit at the 600-level requires additional work. May be repeated to a maximum of twelve credits.

WMST 691B - Women in Early Modern Europe  Credits 3
Exploration of the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women’s participation in the creation of culture and religion, and the European witch-hunts. Notes: This course is crosslisted with WMST 491B. Credit at the 600-level requires additional work.

WMST 692A - Women in Early Modern Europe  Credits 3
Explores the roles of women during the Renaissance, Reformation, and the early modern period. Topics include women and work, women’s participation in the creation of culture and religion, and the European witch-hunts. Notes: This course is crosslisted with WMST 492A. Credit at the 600-level requires additional work.

WMST 694 - Special Topics in Gender and History  Credits 3
Study of a selected topic concerning gender and history. Notes: This course is crosslisted with WMST 494. Credit at the 600-level requires additional work. May be repeated to a maximum of six credits.

WMST 697 - Feminist Praxis  Credits 4
Discussion of the principles of feminist praxis and synthesis of knowledge of Gender and Sexuality Studies as well as the definition of feminist praxis, response to patriarchy, and alternative practices. Grading: Letter grade Prerequisites: Graduate standing.

WMST 700 - Introduction to Women’s Studies  Credits 3
Satisfies the prerequisite for admission to the women’s studies graduate certificate program for those applicants who have no prior knowledge of the field, as demonstrated either by undergraduate course work in women’s studies or extensive reading of and familiarity with women’s studies scholarship. Prerequisites: Graduate Standing.
WMST 701 - Feminist Theory
Credits 3
Interdisciplinary examination of feminist principles of analysis, applied to gendered social life. Encompasses multicultural and transnational perspectives on the questions: What is feminist theory? What is the relationship between theory and practice? What is the role of theory in political and social activism? What does it mean to “do” theory? Prerequisites: Admission to Graduate Certificate Program; or completion of two 600-level Women’s Studies or cross-listed courses on women and/or gender, or permission of instructor.

WMST 702 - Principles of Feminist Inquiry
Credits 3
Introduction to the theory and application of research methods from critical feminist inquiry approach. Investigates core scholarship of feminist inquiry applied to research methods in the last twenty-five years. Prerequisites: Admission to Graduate Certificate Program; or completion of two 600-level Women’s Studies or cross-listed courses on women and/or gender; or permission of instructor.

WMST 703 - Feminist Pedagogy
Credits 3
Historical development of theory and practice of feminist pedagogy offers opportunity to practice the art. Students prepared to teach interdisciplinary women’s studies courses at postsecondary level. Prerequisites: Admission to Graduate Certificate Program; or completion of two 600-level Women’s Studies or cross-listed courses on women and/or gender; or permission of instructor.

WMST 710 - Graduate Capstone Seminar
Credits 3
Capstone seminar provides opportunity for students to reflect critically on theories and methods of interdisciplinary women’s studies scholarship and apply them either to production of knowledge in the arts, humanities, social sciences, or natural sciences or to their practice as psychologists, social workers, nurses, librarians, teachers, and other working professionals. Prerequisites: WMST 701 and WMST 702

WMST 799 - Independent Study
Credits 3
Independent study of special topics selected in consultation with the chair of women’s studies. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of chair.

World Languages and Cultures

The focus on language, literature, and culture in the Spanish M.A. program offers a variety of study options in order to meet the growing demand for students who seek to acquire not only a humanistic preparation in a second language but also the necessary tools for an important practical application of a second language to their future careers. These include, among many others, areas such as public and private school teaching, communications, business, law, medicine, or further graduate studies at another institution of higher learning. Enrollment in small seminars allows students to interact easily with peers and create productive mentor relationships with the faculty.

Susan Byrne, Ph.D., Chair
Alicia Rico, Ph.D., Graduate Coordinator

World Languages and Cultures
Faculty

Chair
Byrne, Susan Professor; B.A., Hunter College; M.Phil. Ph.D., CUNY. Rebel since 2016.

Graduate Coordinator
Jara, Margarita Associate Professor; B.A., Pontificia Universidad Católica del Perú; M.A., Ph.D., University of Pittsburgh. Rebel since 2016.

Graduate Faculty
Arteaga, Deborah L. Professor; B.A., Wichita State University; M.A., University of Colorado, Boulder; Ph.D., University of Washington. Rebel since 1992.

Bao, Ying Associate Professor; B.A., Jiangxi University; M.A., Nanjing Normal University; M.A., Ohio State University; Ph.D., Ohio State University. Rebel since 2008.

Buechler, Ralph Associate Professor; B.A. Washington University, M.A. University of Illinois Urbana Campus, Ph.D., University of Wisconsin. Rebel since 1989.

Cañete-Jurado, Vanessa Assistant Professor; B.A. Universidad de Málaga; M.A., Ph.D. SUNY Binghamton. Rebel since 2016

Galindo, Jorge Associate Professor; Licenciatura, Letras Españolas Instituto Tecnológico de Monterrey; M.A., New Mexico State University; Ph.D., University of Kansas. Rebel since 1997.

Gandía, Elena Faculty-in-Residence; B.A., M.A., Universidad de Granada; Ph.D. Universitat Jaume I, Castellón. Rebel since 2012.

Harp, Margaret R. Associate Professor; B.A., Newcomb College; M.A., Ph.D., Tulane University. Rebel since 1989.

Natale, Giuseppe Associate Professor; Laurea in Lettere, Universita de Torino; M.A., Ph.D., University of Washington. Rebel since 2000.

Rico, Alicia Associate Professor; Licenciatura, Universidad de Alicante, Spain; M.A., Ph.D. University of Kansas. Rebel since 2001.
**Takemaru, Naoko**
Associate Professor; M.A., Michigan State; M.A., Monterey Institute of International Studies; Ph.D., Claremont Graduate University. Rebel since 2003.

**Professors Emeriti**

**Bellver, Catherine** Emerita Distinguished Professor; B.A. Northwestern University; M.A., Ph.D. University of California, Berkeley. UNLV Emerita 1972-2016.

**Koester, Rudolf** Emeritus Professor; B.A., M.A., University of California, Los Angeles; Ph.D., Harvard University. UNLV Emeritus 1969-2000.

**Schmiedel, Donald** Emeritus Associate Professor; B.A., Kent State University; M.A., Ph.D., University of Southern California. UNLV Emeritus 1965-1999.

**Graduate Certificate in Spanish Translation**

**Plan Description**
The post-baccalaureate certificate program provides professional training in translation for both native English speakers with advanced knowledge of Spanish and native Spanish speakers with advanced knowledge of English. Translation and interpretation competence requires a near perfect understanding of the subtleties and nuances of meaning in one language, culture, and context for conveying the same or similar meaning in a different language. It requires superior command of the full range of registers not only in a first language, but in one or more other languages as well.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the program must hold a B.A., with a GPA of 3.00 in their major field.

Applicants must demonstrate an advanced level of proficiency in both English and Spanish; non-native speakers of those languages must take a placement exam administered by the Department of World Languages and Cultures (Spanish) or the English Language Center (English). There is no cost for the placement exam in Spanish, which involves a written test and an interview. The English Language Center will charge $95 for the higher-level Michigan Test of English Language Placement. A degree from an English-language accredited institution of higher education may be substituted for the latter, upon departmental approval.

Applicants must be accepted by the Graduate College.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits: 19

**Course Requirements**

**Required Courses - Credits: 13**

- WLC 715 - Theory of Translation
- WLC 716 - Workshop in Translation
- SPAN 770 - Studies in Translation
- SPAN 780 - Studies in Interpretation
- SPAN 799 - Final Assessment and Exam

**Electives - Credits: 6**

Complete two graduate-level, advisor-approved courses.

Note: Per Graduate College requirements, courses first used to fulfill requirements for the certificate may be used later toward the M.A. in Hispanic Studies. However, courses used first to fulfill requirements toward a previously-conferred degree may not be used to fulfill requirements for the certificate. The degree and certificate may be earned simultaneously.

**Certificate Requirements**

1. Students must complete a final assessment given in the context of the final course, SPAN 799. The final assessment will take into account three different components – linguistic, technical, and cultural – and each component will be equally weighted.

2. For the duration of the certificate program, each student will build an Assessment Portfolio. The Assessment Portfolio will comprise all relevant courses taken at UNLV or at another institution, language tests in the source language and target language, translation projects completed within the UNLV program or specific training in interpretation. The Assessment Portfolio will perform a diagnostic function, allowing the instructor(s) to assess strengths and weaknesses of the student. The portfolio will be used to provide constructive feedback to those students who have weak areas and need additional work before they can successfully complete the program.

3. Once the student has met all required conditions for the certificate – number of credits, core courses, and language proficiency – he or she will be required to take an exit exam administered in the context of a one-credit final course, SPAN 799. The exam will duplicate as closely as possible the conditions in which translators and interpreters work in the professional world.

4. The exit exam will be performed under specific time constraints, appropriate to the task.

5. Students will choose which of the two exit exams (translation or interpretation) they will sit for, based on their individual preparation and experience.
6. Once the exit examination is selected, it may not be changed.

7. Each candidate will be able to utilize the necessary tools typical for these situations (dictionaries, glossaries, terminology databases; laptops/computers; Internet resources, etc.).

8. A minimum of 80 percent must be achieved in this test to be awarded the Translation Certificate.

9. Should a student fail to achieve 80 percent on the SPAN 799 exit exam, s/he may take an incomplete in the course. Following standard practice of the Graduate College, that incomplete allows for up to one year for the student to re-take the exam and score a passing grade of 80 percent or better.

10. The criteria used at the final exam for interpreters and translators vary, as the two disciplines require partly different skills:

11. Assessment for Interpreters includes: language quality, appropriate cultural decoding, grammar, pronunciation/enunciation, timing/rate, register, style, accuracy, eloquence, and general effectiveness.

12. Assessment for Translators includes: language quality, appropriate cultural decoding, grammar, spelling, punctuation, recognition of textual levels, style, and general effectiveness.

Plan Certificate Completion Requirements
Students must maintain a GPA of 3.0 in all course work completed. Students are strongly encouraged to complete the program within three semesters, given the rotation of courses.

Master of Arts - Hispanic Studies

Plan Description
The M.A. program in Hispanic Studies is flexible, allowing students to concentrate on culture, language, literature, and translation. The program aims to meet the needs of students interested in teaching and other professions.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Before acceptance into the program, students will take a pre-qualifying examination administered by the department that will test their Spanish language skills. Students must pass this examination before being officially admitted to the M.A. program. The exam may be retaken once.

Candidates for admission to the graduate program in foreign languages should have the equivalent of the UNLV undergraduate major in the corresponding language with a minimum grade point average of 3.00 in the major field.

In some cases, a student who has a bachelor’s degree in another discipline could be admitted to the program upon the recommendation of the department graduate advisor. Possible transfer credit will be determined by the graduate coordinator in accordance with the policies of the Graduate College. To apply for admission, submit to the Graduate College an application, official transcripts of all college-level work, and two letters of recommendation. Applicants must also take a pre-qualifying Spanish grammar administered by the Department.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 33

Course Requirements

Required Linguistics Course – Credits: 3
Complete one of the following courses:
- WLC 714 - Current Issues in Second Language Acquisition
- SPAN 717 - Seminar in Spanish Linguistics

Required courses – Credits: 6
- SPAN 709 - Writing Workshop
- SPAN 720 - Textual Analysis

Elective Courses – Credits: 18-21
A variety of courses in language, linguistics, literature, and culture will be offered to allow students to complete their degree. Students completing the Comprehensive Written Examination must complete a minimum of 21 credits of elective coursework, and students completing the Research Project must complete a minimum of 18 credits of elective coursework.

Culminating Experience – Credits: 3-6
Select one of the following:
- SPAN 798 - M. A. Written Examination
- SPAN 797 - M.A. Written Project (6 credits)

Degree Requirements

1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.

2. Students may apply a maximum of 9 credits at the 600-level to their graduate program.
3. Courses taken for graduate credit may not be repeated, with the exception of SPAN 730 and SPAN 740, provided that topics change. Graduate courses may not be audited without the consent of the instructor. A grade below a B- will place a student on probation. A second grade below a B- will cause a student to be separated from the program.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements for the program.

2. To qualify for graduation, each student must successfully pass a written examination or complete a final research project.

   a. Written Examination: Students choosing the written examination option must include SPAN 798 in their program. After completing 21 credits, students, in consultation with the graduate coordinator, will choose for their examination three of the following six areas of concentration: Peninsular culture, Latin American culture, linguistics, Peninsular literature, Latin American literature, and translation theory. Once these areas are chosen they may not be changed, nor may the option be changed. The exam will be based on the courses taken as well as on a supplementary list of readings for each area available in the department. The exam will include three 90-minute sections drafted by the examination committee. Grammatical accuracy will also be a graded component of the exam. After passing all three parts of the written exam, students will take an oral examination covering these chosen areas. Students who do not pass any part(s) of the exam will be allowed to retake the failed part(s) only once. Students who do not pass all three parts and the oral examination the second time will be separated from the program.

   b. Final Research Project: Students with at least a 3.8 GPA may (upon the approval of the Spanish graduate coordinator) substitute a final project (six credits of SPAN 797) for the written examination. Before initiating the project, students will establish a three-member faculty examination committee and secure their approval of the project proposals. If the proposal is rejected twice, the student must take the written examination option. When accepted projects are completed, students will take the Final Examination, an oral examination covering the final project. The committee shall consist of the project director, two other members of the graduate faculty, and the graduate faculty representative. Students whose projects are not acceptable for defense will be allowed to resubmit their project the following semester. Students who do not secure approval the second time will be separated from the program. More detailed guidelines will be distributed to enrolled students.

WLC 714 - Current Issues in Second Language Acquisition Credits 3
Investigates current issues in theoretical studies of second language acquisition, and a comparison of L1/L2 acquisition in light of recent developments in linguistic theory and empirical studies. Provides overview of major subdisciplines, issues and approaches.

WLC 715 - Theory of Translation Credits 3
Readings in the theory of translation, as well as textual analysis of existing translations to and from different languages. Notes: Taught in English. Prerequisites: Graduate student with advanced knowledge of one foreign language, consent of instructor.

WLC 716 - Workshop in Translation Credits 3
Explores problems inherent in the translation of foreign texts, works on individual and common projects with assistance of instructor. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate student with advanced knowledge of one foreign language, WLC 715, consent of instructor.

WLC 717 - Independent Studies in Translation Credits 3
Opportunity to pursue an individualized course or project in translation studies. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate student with advanced knowledge of one foreign language, WLC 715, WLC 716, consent of instructor.

FRE 632 - Renaissance Literature
Graduate credit (12 credits maximum) may be obtained for courses designated 650 or above when taught by graduate faculty. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Notes: Credit at the 600-level requires additional work.

FREN 701 - Methods of Literary Research and the Writing of Essays Credits 3
Bibliography and documentation including the techniques of the dissertation francaise (three-part essay).

FREN 702 - French Literary Criticism Credits 3
History of literary criticism from the Renaissance to the present. Theories and techniques of twentieth-century literary criticism emphasized.

FREN 703 - Guided Reading and Research Credits 1 – 3
Notes: May be repeated for up to six credits.

FREN 704 - Selected Topics in French Literature Credits 3
Study of a particular literary theme or individual writer as chosen by the professor. Topics vary. Notes: May be repeated for credit.

FREN 722 - The Courtly Romance Credits 3
Studies origins and variations of French courtly romance. Close analysis of prevalent themes and stylistic found in works of Marie de France, Chretien de Troyes, and Guillaume de Lorris. Prerequisites: Graduate standing or consent of instructor.

FREN 741 - The Development of the French Novel Credits 3
Evolution of the novel as a genre, from Chretien de Troyes to contemporary writers. Notes: Taught in French.

FREN 742 - The Evolution of French Theater Credits 3
Study of the development of the dramatic arts in France. Notes: Taught in French.

FREN 743 - The Evolution of French Poetry Credits 3
Evolution of poetry, from the troubadours to contemporary French poets. Notes: Taught in French.
FREN 755 - Studies in Francophone Culture Credits 3
Presentation of French speaking cultures outside metropolitan France. Notes: May be repeated for up to six credits. Taught in French.

FREN 792 - Studies in Francophone Literature Credits 3
Study of principal works in Francophone literature. Notes: May be repeated for up to six credits. Taught in French.

FREN 797 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense.

ITAL 603 - Advanced Reading Proficiency in Italian Credits 3
Develops advanced reading skills in Italian through textual analysis of a broad range of reading materials. Notes: This course is crosslisted with ITAL 403. Credit at the 600-level requires additional work. May be repeated to a maximum of twelve credits.

ITAL 662 - Dante’s Divine Comedy Credits 3
A select reading in the Divine Comedy with some reference to Dante’s other works, Convivio, Monarchia, and Vita Nuova. Notes: This course is crosslisted with ITAL 462. Credit at the 600-level requires additional work. Taught in English.

SPAN 612 - Advanced Translation Credits 3
Examines the main aspects of contrastive grammar and stylistics used in Spanish/English translation, while providing practical opportunities to incorporate and apply the material. Exposure to a variety of translation fields. Notes: This course is crosslisted with SPAN 412. Credit at the 600-level requires additional work. Prerequisites: Permission of instructor.

SPAN 613 - Advanced Interpretation Credits 3
Practice the techniques of consecutive, simultaneous, and sight interpreting. Terminology used by interpreters in a variety of settings, with an emphasis on court interpretation Notes: This course is crosslisted with SPAN 413. Credit at the 600-level requires additional work. Prerequisites: Permission of instructor.

SPAN 650 - Advanced Topics in Hispanic Literature Credits 3
In-depth critical study of selected themes, modes, literary forms and strategies in Hispanic literature. May be repeated provided the subtitle is different. Notes: This course is crosslisted with SPAN 450. Credit at the 600-level requires additional work. Maybe be repeated to a maximum of twelve credits.

SPAN 696 - Spanish Dialectology Credits 3
Study of different regional varieties of the Spanish language throughout the world, including differences in pronunciation, grammar, and vocabulary. Sociolinguistic aspects also covered. Notes: This course is crosslisted with SPAN 496. Credit at the 600-level requires additional work. May be repeated to a maximum of twelve credits.

SPAN 709 - Writing Workshop Credits 3
Enhance students’ writing skills in Spanish. Some grammar issues reviewed. Analyzes writing techniques for different texts such as reports, summaries, reviews and analytical papers. Student apply these techniques to their own assignments. Notes: Taught in Spanish. Prerequisites: Successful completion of departmental Spanish language exam.

SPAN 710 - Studies in the Spanish Language Credits 3
Current approaches to topics related to the Spanish language. Notes: May be repeated with different topics to a maximum of six credits. Taught in Spanish. Prerequisites: SPAN 717 or consent of instructor.

SPAN 713 - Spanish Sociolinguistics Credits 3
Overview of the varied manifestations of the Spanish language. Topics include regional variation, social variation, code-switching, and bilingualism. Notes: Taught in Spanish. Prerequisites: SPAN 717 or consent of instructor.

SPAN 717 - Seminar in Spanish Linguistics Credits 3
Introduction to structure of the Spanish language within framework of theoretical linguistics. Topics covered include analysis of Spanish sound system, word formation processes, and sentence structure. Notes: Taught in Spanish.
College of Sciences

The natural and mathematical sciences represent the dual cutting edges of our technological future. UNLV’s College of Sciences is dedicated to making this future real, in the creation of new knowledge through research, and in the application of that knowledge in the classroom and in the development of technological advances to benefit society. These are the guiding principles that bring students, faculty, and staff together. Whether in a small discussion session, in a research laboratory or in the field, College of Sciences graduate students are in an environment in which learning, discovery, and innovation are the common goals. Many students choose a graduate institution based on the reputation of an individual faculty scholar or laboratory group. This is often an excellent approach to find the right match between a new graduate student and a mentor. Still, students who come to UNLV’s College of Sciences without a particular graduate project in mind can count on identifying potential major professors who are receptive to a wide array of interests and backgrounds. Through its active programs of research and teaching, the College of Sciences has established a remarkable foundation of state-of-the-art instrumentation and facilities, providing an ever-growing set of opportunities for students who desire the best from their graduate experiences. Students who graduate with a master’s or doctoral degree from the College of Sciences fulfill their professional goals, and are competitive for career positions in academia, industry, or in governmental or non-governmental organizations.

Eric L. Chronister, Dean
Andrew J. Andres, Interim Executive Associate Dean
Bing Zhang, Associate Dean for Research

College of Sciences

Dean’s Office

BIOL 666 - Developmental Biology Credits 3
Developmental biology from the perspectives of evolutionary biology, experimental embryology, cell biology, and genetics, emphasizing triploblastic animals. Mechanisms of patterning, tissue organization, genetic basis of morphological changes, developmental genetics of model species, and extension of these principles to selected problems in current biomedical research. Prerequisites: BIOL 304 and BIOL 445, or permission of instructor.

SCI 620 - Middle School Mathematics Content: Credits 1-3
Middle school mathematics content for teachers. Topics: a) Number, Number Theory, Operations, b) Geometry & Measurement, c) Probability & Statistics, d) Algebra I, e) Euclidean/Non-Euclidean Geometry, f) Problem Solving, g) Algebra II, h) Pre-calculus, i) Computer/Technology Applications, j) other. Notes: Credit repeatable by topic (1-3 credits). Credits may not be applied to College of Sciences graduate program. The maximum number of credits that may be earned is 24.

SCI 630 - Middle School Science Content: Credits 1-3
Surveys middle school science content for middle school teachers. Introduces experimental and research-based aspects of the fields/topics listed through an inquiry approach to scientific content. Fields/topics: a) Lab Safety and Science Process. b) Life Science IA. c) Life Science IB. d) Physical Science IA. e) Physical Science IB. f) Earth Science IA. g) Earth Science IB. h) other. Notes: May be repeated for credit in different fields/topics (1-3 credits); not available for credit in graduate programs in College of Sciences.

SCI 640 - High School Mathematics Content: Credits 1-3
Surveys high school mathematics content for high school teachers. Introduces exploratory and research-based aspects of the fields/topics listed through a problem solving approach to mathematics content. Fields/topics: a) Geometry. b) Advanced Algebra. c) Trigonometry and Analysis. d) Statistics and Probability. e) Calculus. f) Technology Applications. g) other. Notes: May be repeated for credit in different fields/topics (1-3 credits); not applicable to graduate programs in College of Sciences.

SCI 650 - High School Science Content: Credits 1-3
High school science content for teachers. a) Lab Safety, Science Process. b) Content Area Literacy. (c,d) Biology IA, IB (e,f) Earth Science IA, IB (g,h) Chemistry IA, IB (j,k) Physics IA, IB (i) AP Biology (m) AP Chemistry (n) AP Physics (o) other (p,q) Principles of Science, semesters 1,2.

SCI 796 - Professional Paper, Master of Arts in Sciences Credits 1-3
Professional paper preparation, including review of literature or similar research effort. May be repeated to a maximum of three credits. Not permitted for students pursuing the M.S. Thesis option. Prerequisite: Consent of instructor.

Chemistry and Biochemistry

The Department of Chemistry and Biochemistry offers the Ph.D. in Chemistry or Ph.D. in Radiochemistry and the M.S. in Chemistry or the M.S. in Biochemistry. Students may supplement their programs with appropriate courses from other science departments, with the approval of their graduate committee. Research may include projects conducted in the Department of Chemistry and Biochemistry, the Harry Reid Center, the Desert Research Institute, or the Environmental Protection Agency.

For additional information contact: Kathleen A. Robins (Graduate Coordinator) at (702) 895-3510.

Spencer Steinberg, Ph.D., Chair
Kathleen Robins, Ph.D., Graduate Coordinator
Frederic Poineau, Ph.D., Graduate Coordinator - Radiochemistry (Ph.D.)

Chemistry Faculty

Chair
Steinberg, Spencer - Full Graduate Faculty Professor; Environmental & Organic Chemistry; B.A., Ph.D., University of California, San Diego. Rebel since 1989.

Graduate Coordinator
Poineau, Frederic

Robins, Kathleen A. - Full Graduate Faculty Associate Professor; Physical Chemistry; B.S., University of Illinois, Champaign-Urbana; M.A., Ph.D., University of California, Santa Barbara. Rebel since 1991.

Graduate Faculty
Abel-Santos, Ernesto - Full Graduate Faculty Professor; Biochemistry; B.S., Autonomous University of Santo Domingo, Dominican Republic; Ph.D., Washington University School of Medicine, St. Louis. Rebel since 2006.

Bhowmik, Pradip - Full Graduate Faculty Professor; Organic & Polymer Chemistry; M.S., University of Dhaka, Bangladesh; M.S., University of Massachusetts at Dartmouth; Ph.D., University of Massachusetts at Amherst. Rebel since 1998.
The applicant is required to submit a completed Admission to the Ph.D. degree program in Chemistry. The Department of Chemistry requires scores for the GRE, General Record Exam, for admission. A minimum grade point average (GPA) of 3.00, on a 4.0 scale, is required for admission to the program.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Applications available on the UNLV Graduate College website.

For preferential consideration, please submit materials for Fall semester admission by February 1, and for Spring semester, by October 1.

1. The applicant is required to submit a completed Graduate College application, application fee and official transcripts to the Graduate College with copies submitted to the department.
2. Admission to the Ph.D. degree program in Chemistry requires a B.S. degree or a M.S. degree in Biochemistry, Chemistry, Biology, or a related discipline.
3. A minimum grade point average (GPA) of 3.00, on a 4.0 scale, for all undergraduate or graduate work is required for admission to the program.
4. In addition, the Graduate College application and official transcripts, the Department of Chemistry requires a statement of interest from the applicant. A letter of application should state interests and goals for graduate study. This is a 1-2 page essay describing the applicant’s reasons for considering graduate study, goals after completion of the graduate degree, and the applicant’s specific areas of interest.
5. The Department of Chemistry requires three letters of recommendation from persons familiar with the academic record of the applicant. Each letter should detail the potential of the applicant for advanced graduate work in Chemistry or Biochemistry.
6. The Department of Chemistry requires scores for GRE, General Record Exam, for admission.
7. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Doctor of Philosophy - Chemistry

Plan Description

The Ph.D. degree in chemistry is primarily a research-based program that includes sufficient advanced course work to provide a strong background from which students may pursue forefront research, under the direct guidance of a faculty member, in their chosen areas of interest. The program is designed to develop the professional skills required to function as an independent researcher in chemistry.
Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s Track
Total Credits Required: 60

Course Requirements

Graduate Seminar Course – Credits: 5
- CHEM 691 - Graduate Seminar in Chemistry
  A minimum of 3 presentations is required.

Coursework Elective Courses – Credits: Minimum of 12
A minimum of 12 credits of advisor-approved coursework electives. These courses may include but are not limited to:
- CHEM 710 - Environmental Aquatic Chemistry
- CHEM 715 - Environmental Organic Chemistry
- CHEM 725 - Advanced Organic Chemistry
- CHEM 726 - Organic Synthesis
- CHEM 735 - Advanced Physical Chemistry
- CHEM 745 - Instrumental Analysis-Inorganic
- CHEM 749 - Polymer Chemistry
- CHEM 750 - Quality Assurance and Statistics
- CHEM 770 - Protein Chemistry
- CHEM 771 - Metabolism and Energetics
- CHEM 772 - Nucleic Acid Chemistry
- CHEM 773 - Physical Biochemistry
- CHEM 775 - Bioanalytical Environmental Toxicology
- CHEM 783 - Spectral Interpretation
- CHEM 793 - Special Topics

Research Elective Courses – Credits: 31
Complete 31 credits of advisor-approved research electives. These courses may include but are not limited to:
- CHEM 792 - Research Seminar
- CHEM 795 - Independent Study
- CHEM 796 - Dissertation Prospectus
- CHEM 797 - Directed Research

Dissertation – Credits: 12
- CHEM 799 - Dissertation

Degree Requirements
1. Doctoral students in Chemistry are required to complete a minimum of 60 credit hours beyond the baccalaureate.
2. All students are required to maintain a minimum a 3.00 grade point average in all graduate-level courses. Two grades of B- are permitted in the degree program as long as the GPA remains at or above 3.00. One grade of C+ or lower will result in academic probation even if the overall GPA is above 3.0. Two grades of C+ or lower will result in automatic suspension or separation from the program.
3. All students must meet with their advisory committee on a yearly basis, and all students must complete an annual evaluation form.
4. A dissertation advisor must be chosen by the end of the first semester, and the Doctoral Advisory Committee must be appointed prior to the end of the second semester. An approved graduate degree program must be filed prior to the beginning of the third semester of enrollment. All students must meet these deadlines; failure to do so will result in academic probation. Failure of a student on academic probation to meet these requirements within the next semester could result in separation from the program.
5. The Doctoral Advisory Committee must consist of the faculty advisor (chair), chemistry graduate faculty in the discipline of study, one additional chemistry graduate faculty member, and one graduate-college representative from outside the department. Failure to identify an advisor and form this committee will result in the student being placed on academic probation. The use of committee members external to UNLV is allowed with approval from the examination committee. External members without graduate faculty status at UNLV will be non-voting members of the Ph.D. examination committee.
6. All students are required to schedule an interview with the advisor either before or during the first semester of study. If the student does not select an advisor, the Graduate Coordinator will assign a temporary advisor. The purpose of the initial interview is to develop a plan of course work for the first year.
7. All students are required to schedule a diagnostic interview with the Doctoral Advisory Committee before the end of the 2nd semester. The purpose of the interview is to develop a list of recommended courses and design the student’s degree program, which must be submitted prior to completing 16 credits of course work toward the degree.
8. All students must prepare a dissertation proposal for a Proposal Defense Examination. The student should register for the Dissertation Prospectus course. This examination must be completed prior to the end of the fourth semester. To remain in good standing students are required to develop and defend a dissertation prospectus no later than the fourth semester of enrollment. If a student does not defend a dissertation prospectus they will be placed on academic probation. The Proposal Defense Examination focuses on the dissertation proposal and the student’s ability to perform the research. It includes a formal oral
presentation of the student’s dissertation proposal, research to date, and questions by the dissertation advisory committee on the dissertation topic. The Proposal Defense Examination is to be taken prior to the Comprehensive Examination.

9. Advancement to Candidacy. Students will advance to candidacy if the Comprehensive Examination is passed and the enrolled coursework is successfully completed based on the evaluation of the students Doctoral Advisory Committee. The comprehensive exam will consist of written and oral components as defined by the Ph.D. Examination Committee. Satisfactory performance on the Comprehensive Examination requires that Ph.D. students have a basic knowledge of the discipline of study. It also requires the student to follow the guidelines established for each discipline (i.e., Biochemistry, Physical Chemistry, Analytical Chemistry, Inorganic Chemistry and Organic Chemistry). The student’s Doctoral Advisory Committee or the faculty from the discipline of study will determine the format and content of both the written and oral exams.

10. The Ph.D. Examination Committee will determine if the student passes the Comprehensive Examination. If a student fails any part of the Comprehensive Examination, the Ph.D Examination Committee will determine if the student is allowed to retake the portion of the comprehensive exam that is not passed.

  1. Students who fail to pass any part of the Comprehensive Examination or Proposal Defense on the first attempt must successfully complete a second attempt (as specified by the Ph.D. Examination Committee) within the next six months to remain in the program.

  2. Failure to advance to candidacy by the end of the sixth semester of enrollment will result in the student being placed on academic probation. Failure to advance to candidacy by the end of the seventh semester will result in the student being separated from the program.

  3. Students who enter the program with a baccalaureate degree and who fail the second examination may be allowed to continue as a Master of Science student with the consent of the Doctoral Advisory Committee.

  4. A student who has successfully passed both the Proposal Defense and Comprehensive Examinations will advance to candidacy for the Ph.D. degree.

  5. After advancement, subsequent years of study will be required for the graduate student to complete their degree. The duration of this period will depend on the success of the research project as defined by the Doctoral Advisory Committee.

  6. Completed coursework will only be counted towards the graduation requirements of this program for eight years if the student completed a baccalaureate degree. It is recommended that students publish at least one research-based manuscript in a peer-reviewed journal prior to graduation.

7. Satisfactory performance on the final examination will consist of the presentation and defense of the dissertation research. The defense will consist of an oral presentation open to the public, a short period of questions from the public, a closed session of questions from the Doctoral Advisory Committee, and a closed deliberation and vote by just the Doctoral Advisory Committee members. Any graduate faculty member may attend the closed session of questions of the defense.

11. It is expected that each student be a teaching assistant for a minimum of two courses prior to graduation. It is also expected that each student publish research-based manuscripts in peer-reviewed journals.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Master’s Track

Total Credits Required: 30

Course Requirements

Graduate Seminar Course – Credits: 5

  • CHEM 691 - Graduate Seminar in Chemistry
    A minimum of 3 presentations is required.

Elective Courses – Credits: 13

Complete 13 credits of advisor-approved electives. These courses may include but are not limited to:

  • CHEM 710 - Environmental Aquatic Chemistry
  • CHEM 715 - Environmental Organic Chemistry
  • CHEM 725 - Advanced Organic Chemistry
  • CHEM 726 - Organic Synthesis
  • CHEM 735 - Advanced Physical Chemistry
  • CHEM 745 - Instrumental Analysis-Inorganic
  • CHEM 749 - Polymer Chemistry
  • CHEM 750 - Quality Assurance and Statistics
  • CHEM 770 - Protein Chemistry
  • CHEM 771 - Metabolism and Energetics
  • CHEM 772 - Nucleic Acid Chemistry
  • CHEM 773 - Physical Biochemistry
  • CHEM 775 - Bioanalytical Environmental Toxicology
• CHEM 783 - Spectral Interpretation
• CHEM 793 - Special Topics

Dissertation – Credits: 12
• CHEM 799 - Dissertation

Degree Requirements
1. Doctoral students entering the Ph.D. program with an approved M.S. degree in Chemistry or a closely related discipline, are required to complete a minimum of 30 credit hours in the Ph.D. program at UNLV comprised of courses at the 700-level.

2. All students are required to maintain a minimum a 3.00 grade point average in all graduate-level courses. Two grades of B- are permitted in the degree program as long as the GPA remains at or above 3.00. One grade of C+ or lower will result in academic probation even if the overall GPA is above 3.0. Two grades of C+ or lower will result in automatic suspension or separation from the program.

3. All students must meet with their advisory committee on a yearly basis, and all students must complete an annual evaluation form.

4. A dissertation advisor must be chosen by the end of the first semester, and the Doctoral Advisory Committee must be appointed prior to the end of the second semester. An approved graduate degree program must be filed prior to the beginning of the third semester of enrollment. All students must meet these deadlines; failure to do so will result in academic probation. Failure of a student on academic probation to meet these requirements within the next semester could result in separation from the program.

5. The Doctoral Advisory Committee must consist of the faculty advisor (chair), chemistry graduate faculty in the discipline of study, one additional chemistry graduate faculty member, and one graduate-college representative from outside the department. Failure to identify an advisor and form this committee will result in the student being placed on academic probation. The use of committee members external to UNLV is allowed with approval from the examination committee. External members without graduate faculty status at UNLV will be non-voting members of the Ph.D. examination committee.

6. All students are required to schedule an interview with the advisor either before or during the first semester of study. If the student does not select an advisor, the Graduate Coordinator will assign a temporary advisor. The purpose of the initial interview is to develop a plan of course work for the first year.

7. All students are required to schedule a diagnostic interview with the Doctoral Advisory Committee before the end of the 2nd semester. The purpose of the interview is to develop a list of recommended courses and design the student’s degree program, which must be submitted prior to completing 16 credits of course work toward the degree.

8. All students must prepare a dissertation proposal for a Proposal Defense Examination. The student should register for the Dissertation Prospectus course. This examination must be completed prior to the end of the fourth semester. To remain in good standing students are required to develop and defend a dissertation prospectus no later than the fourth semester of enrollment. If a student does not defend a dissertation prospectus they will be placed on academic probation. The Proposal Defense Examination focuses on the dissertation proposal and the student’s ability to perform the research. It includes a formal oral presentation of the student’s dissertation proposal, research to date, and questions by the dissertation advisory committee on the dissertation topic. The Proposal Defense Examination is to be taken prior to the Comprehensive Examination.

9. Advancement to Candidacy. Students will advance to candidacy if the Comprehensive Examination is passed and the enrolled coursework is successfully completed based on the evaluation of the students Doctoral Advisory Committee. The comprehensive exam will consist of written and oral components as defined by the Ph.D. Examination Committee. Satisfactory performance on the Comprehensive Examination requires that Ph.D. students have a basic knowledge of the discipline of study. It also requires the student to follow the guidelines established for each discipline (i.e., Biochemistry, Physical Chemistry, Analytical Chemistry, Inorganic Chemistry and Organic Chemistry). The student’s Doctoral Advisory Committee or the faculty from the discipline of study will determine the format and content of both the written and oral exams.

10. The Ph.D. Examination Committee will determine if the student passes the Comprehensive Examination. If a student fails any part of the Comprehensive Examination, the Ph.D Examination Committee will determine if the student is allowed to retake the portion of the comprehensive exam that is not passed.

   1. Students who fail to pass any part of the Comprehensive Examination or Proposal Defense on the first attempt must successfully complete a second attempt (as specified by the Ph.D. Examination Committee) within the next six months to remain in the program.

   2. Failure to advance to candidacy by the end of the sixth semester of enrollment will result in the student being placed on academic probation. Failure to advance to candidacy by the end of the seventh semester will result in the student being separated from the program.

   3. Students who entered the program with a master’s degree who fail the examination a second time will be separated from the program.
4. A student who has successfully passed both the Proposal Defense and Comprehensive Examinations will advance to candidacy for the Ph.D. degree.

5. After advancement, subsequent years of study will be required for the graduate student to complete their degree. The duration of this period will depend on the success of the research project as defined by the Doctoral Advisory Committee.

6. Completed coursework will only be counted towards the graduation requirements of this program for six years. It is recommended that students publish at least one research-based manuscript in a peer-reviewed journal prior to graduation.

7. Satisfactory performance on the final examination will consist of the presentation and defense of the dissertation research. The defense will consist of an oral presentation open to the public, a short period of questions from the public, a closed session of questions from the Doctoral Advisory Committee, and a closed deliberation and vote by just the Doctoral Advisory Committee members. Any graduate faculty member may attend the closed session of questions of the defense.

11. It is expected that each student be a teaching assistant for a minimum of two courses prior to graduation. It is also expected that each student publish research-based manuscripts in peer-reviewed journals.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Doctor of Philosophy - Radiochemistry

Plan Description

The Radiochemistry Ph.D. Program is a student-driven research intensive program stressing fundamental aspects of radiochemistry science. It was established by the Departments of Health Physics and Chemistry and includes participants from the Harry Reid Center, Nuclear Science and Technology Group. The program is administered by the UNLV Graduate College. The Ph.D. program requires 60 credits of research and courses beyond the baccalaureate degree. Credit is required for four courses in nuclear chemistry, radiochemistry, detectors, and laboratory. The remaining courses are based on the area of interest of the student and include laboratory research. Students are obliged to maintain a B average and show progress in their research. The curriculum and research provides a comprehensive and interdisciplinary examination of topics and experiences necessary to produce graduates who are ready to secure employment and participate in radiochemistry research.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program is granted annually for the fall semester.

Admission requirements include:

1. Completed Graduate College Application including applicable fees.

2. For entrance into the program in Subplan 1: Post-Bachelor's Track the following requirements apply: An earned undergraduate degree from a regionally accredited institution in the field of chemistry, radiochemistry, health physics, engineering or other related field with a minimum GPA of 3.0. Applicants with a GPA below 3.0, but not less than 2.75, may be admitted on a provisional basis. For entrance into the program in Subplan 2: Post-Masters Track, the following requirements apply: An earned master of science degree from a regionally accredited institution in the field of chemistry, radiochemistry, health physics, engineering or other closely related discipline. An evaluation by the radiochemistry faculty of the candidate’s scientific knowledge of chemistry, radiochemistry and health physics is required to determine a student’s admission status. A minimum GPA of 3.0 in an approved master’s program is required. Applicants with a GPA below 3.0, but not less than 2.75, may be admitted on a provisional basis.

3. Three letters of recommendation including one letter from an individual who can evaluate the applicant’s ability to conduct graduate work at the PhD level. A second letter of recommendation must come from someone who has supervised the candidate in a work setting.
4. A current resume.

5. A statement of purpose explaining the applicant’s career goals and why the doctorate would enhance the likelihood of achieving those goals. The statement should also explain why the applicant believes that he or she is qualified to conduct academic work at the advanced graduate level. Finally, the statement should address the specific area of specialization the student would like to emphasize.

6. A score ranking in the 50th percentile or higher in the verbal and quantitative sections of the Graduate Record Exam (GRE).

7. Students meeting all of the above admission requirements may be asked to meet with the admission committee for a personal interview.

8. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

For information on Conditional Admission, please refer to the Admission & Registration section of the Graduate Catalog.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Subplan 1: Post-Bachelor’s Track
Subplan 2: Post-Masters Track

Subplan 1 Requirements: Post-Bachelor’s Track
Total Credits Required: 60

Course Requirements
Core Courses – Credits: 12
- RDCH 701 - Applied Nuclear Physics
- RDCH 702 - Radiochemistry
- HPS 602 - Radiation Physics
- HPS 603 - Radiation Physics and Instrumentation Laboratory

Electives – Credits: 30-36
Complete 30-36 credits of advisor-approved electives.

Dissertation – Credits: 12-18
- CHEM 799 - Dissertation

Degree Requirements
1. Students must complete a minimum of 60 credit hours with a minimum GPA of 3.00.
2. RDCH 702 must be completed before enrolling in RDCH 710.

3. Students enrolled in the Radiochemistry Ph.D. program are required to maintain satisfactory progress toward the degree as determined by the student’s academic advisor and advisory committee. To maintain satisfactory progress in the Radiochemistry Ph.D. program, a student must:
   1. Maintain a cumulative grade point average of 3.0 or above each semester enrolled.
   2. Receive a grade of B (3.0) or above in all core Radiochemistry courses. If less than a B is earned in any given course, it may be repeated. The student must be in good standing to repeat a course, and courses may not be repeated more than one time.
   3. Schedule and take the oral qualifying exam within 1.5 years of satisfactorily completing the core Radiochemistry courses.
   4. Pass the dissertation prospectus defense within 3 years of entering the Radiochemistry Ph.D. program.
   5. Participate in Radiochemistry seminar. Students are required to participate in the weekly Radiochemistry seminar each semester they are in residence at UNLV. Students may only be exempted from this requirement due to scheduling conflicts, with the prior approval of their academic advisor.

4. Failure to make satisfactory progress as determined by the student’s academic advisor and/or advisory committee may include: failure to complete six credits per calendar year toward the degree program; unsatisfactory grades (including Incompletes, grades below a B, or Withdrawals); failure to consult with the academic advisor when requested; failure to establish a graduate advisory committee; failure to establish the groundwork for an acceptable dissertation; failure of oral qualifying examination; failure to pass prospectus defense; or, continuous or willful neglect and/or intentional or continuous disregard for laboratory safety procedures.

5. To advance to candidacy, students are required to pass an oral exam on their research and an outside topic related to radiochemistry.

6. Complete all requirements for the Ph.D. degree within eight years, or six years if entering the program with a master’s degree. If these requirements are not met, the program may place the student on academic probation or drop him/her from the Ph.D. program.

7. In consultation with his/her advisor, a student will organize a dissertation committee. The graduate advisory committee is responsible for guiding students through the Radiochemistry Ph.D. program. Upon entering the program, the Radiochemistry Graduate Coordinator will serve as academic advisor to all students until individual advisory committees have been established. The responsibility of establishing an
advisory committee falls upon the students. By the end of the first year in the program, students must select an advisory committee chair who will also serve as the student’s academic advisor from that point forward. By the end of the second year in the program, students must select the remaining members of the graduate advisory committee.

8. The graduate advisory committee consists of at least four graduate faculty members as follows:

1. Advisory Committee Chair - must have full graduate faculty status in Radiochemistry.

2. Graduate College Representative - must have full graduate faculty status at UNLV in a program outside of Radiochemistry and the host department. Faculty with status in Radiochemistry may not serve as the GC Rep.

3. Committee Member - must have affiliate, associate or full graduate faculty status in Radiochemistry.

4. Committee Member - must have affiliate, associate or full graduate faculty status in Radiochemistry.

1. The oral qualifying exam must be taken within 1.5 years of successfully completing the radiochemistry core courses listed above. The exam is designed to test students on the fundamental science underlying radiochemistry, including all content covered in the core courses. In addition, students are tested on their depth of knowledge in their area of research specialization.

2. The oral qualifying exam is held in closed session and is given by the qualifying examination committee. This committee is made up of a minimum of three members, the advisory committee chair, another member of the UNLV radiochemistry faculty, and an affiliate, associate or full graduate faculty status member in Radiochemistry. All members of the qualifying examination committee must be present during the oral qualifying exam. Additional members of the student’s advisory committee may participate on the qualifying examination at the discretion of the academic advisor, but are not required to be present.

3. For the exam, students are responsible for preparing two presentations which are presented to the qualifying examination committee. The first presentation is an overview of the student’s proposed research, including relevant literature, a proposed research plan and summary/results of current research. This presentation may serve as the basis for the Prospectus Defense as well. The second presentation summarizes a recent published scientific article on a topic not directly related to the candidate’s proposed dissertation research. The article must be approved by the student’s advisor prior to the exam.

3. Students who do not pass the exam may repeat the exam one time within 6 months, but no sooner than 3 months from the first attempt. Students who do not pass the oral qualifying exam on the second attempt will be severed from the program.

4. Students must schedule and take the oral qualifying exam within 1.5 years of satisfactorily completing the core Radiochemistry courses.

1. Students are required to participate in the weekly Radiochemistry seminar each semester they are in residence at UNLV. Students may only be exempted from this requirement due to scheduling conflicts, with the prior approval of their academic advisor.

2. Students must prepare and successfully defend their dissertation prospectus prior to the completion of their sixth semester. The prospectus will cover a review of the relevant literature, a statement of the problem or hypothesis to be examined and a research plan for the project. The prospectus will be defended to the student’s advisory committee and will be open to the general research community. All members of the student’s advisory committee must be present at the student’s prospectus defense.

3. Students are expected to write a dissertation demonstrating both knowledge of a specific topic and the ability to conduct high quality original research. The dissertation must be accepted by the student’s advisory committee prior to the completion of the degree program. Upon completion of the dissertation, the dissertation must be defended to the student’s advisory committee in a public dissertation defense.

4. To advance to candidacy, students are required to pass the oral qualifying exam and successfully defend their dissertation prospectus. Upon successful completion of the prospectus defense, students shall be promoted to Ph.D. candidate the term following the defense.

5. The dissertation must be written in collaboration with the student’s academic advisor and advisory committee. The dissertation must be accepted by the student’s advisory committee prior to the completion of the degree program. Students must enroll in six credits of dissertation work each semester they are
Subplan 2 Requirements: Post Master’s Track

Total Credits Required: 30

Course Requirements

Core Courses – Credits: 12
- RDCH 701 - Applied Nuclear Physics
- RDCH 702 - Radiochemistry
- HPS 602 - Radiation Detection
- HPS 603 - Radiation Physics and Instrumentation Laboratory

Dissertation – Credits: 18
- CHEM 799 - Dissertation

Degree Requirements

1. Doctoral students entering the Ph.D. program with an approved M.S. degree in Chemistry or a closely related discipline, are required to complete 30 credit hours in the Ph.D. program at UNLV comprised of courses at the 700-level or other courses as directed by the student’s advisory committee. Students must maintain a minimum GPA of 3.00.

2. RDCH 702 must be completed before enrolling in RDCH 710.

3. Students enrolled in the Radiochemistry Ph.D. program are required to maintain satisfactory progress toward the degree as determined by the student’s academic advisor and advisory committee. To maintain satisfactory progress in the Radiochemistry Ph.D. program, a student must:
   1. Maintain a cumulative grade point average of 3.0 or above each semester enrolled.
   2. Receive a grade of B (3.0) or above in all core Radiochemistry courses. If less than a B is earned in any given course, it may be repeated. The student must be in good standing to repeat a course, and courses may not be repeated more than one time.
   3. Schedule and take the oral qualifying exam within 1.5 years of satisfactorily completing the core Radiochemistry courses.
   4. Pass the dissertation prospectus defense within 3 years of entering the Radiochemistry Ph.D. program.
   5. Participate in Radiochemistry seminar. Students are required to participate in the weekly Radiochemistry seminar each semester they are in residence at UNLV.

4. Failure to make satisfactory progress as determined by the student’s academic advisor and/or advisory committee may include: failure to complete six credits per calendar year toward the degree program; unsatisfactory grades (including Incompletes, grades below a B, or Withdrawals); failure to consult with the academic advisor when requested; failure to establish a graduate advisory committee; failure to establish the groundwork for an acceptable dissertation; failure of oral qualifying examination; failure to pass prospectus defense; or, continuous or willful neglect and/or intentional or continuous disregard for laboratory safety procedures.

5. To advance to candidacy, students are required to pass an oral exam on their research and an outside topic related to radiochemistry.

6. Complete all requirements for the Ph.D. degree within eight years, or six years if entering the program with a master’s degree. If these requirements are not met, the program may place the student on academic probation or drop him/her from the Ph.D. program.

7. In consultation with his/her advisor, a student will organize a dissertation committee. The graduate advisory committee is responsible for guiding students through the Radiochemistry Ph.D. program. Upon entering the program, the Radiochemistry Graduate Coordinator will serve as academic advisor to all students until individual advisory committees have been established. The responsibility of establishing an advisory committee falls upon the students. By the end of the first year in the program, students must select an advisory committee chair who will also serve as the student’s academic advisor from that point forward. By the end of the second year in the program, students must select the remaining members of the graduate advisory committee.

8. The graduate advisory committee consists of at least four graduate faculty members as follows:
   1. Advisory Committee Chair - must have full graduate faculty status in Radiochemistry.
   2. Graduate College Representative - must have full graduate faculty status at UNLV in a program outside of Radiochemistry and the host department. Faculty with status in Radiochemistry may not serve as the GC Rep.
   3. Committee Member - must have affiliate, associate or full graduate faculty status in Radiochemistry.
   4. Committee Member - must have affiliate, associate or full graduate faculty status in Radiochemistry.

Students may only be exempted from this requirement due to scheduling conflicts, with the prior approval of their academic advisor.
1. The oral qualifying exam must be taken within 1.5 years of successfully completing the radiochemistry core courses listed above. The exam is designed to test students on the fundamental science underlying radiochemistry, including all content covered in the core courses. In addition, students are tested on their depth of knowledge in their area of research specialization.

1. The oral qualifying exam is held in closed session and is given by the qualifying examination committee. This committee is made up of a minimum of three members, the advisory committee chair, another member of the UNLV radiochemistry faculty, and an affiliate, associate or full graduate faculty status member in Radiochemistry. All members of the qualifying examination committee must be present during the oral qualifying exam. Additional members of the student’s advisory committee may participate on the qualifying examination at the discretion of the academic advisor, but are not required to be present.

2. For the exam, students are responsible for preparing two presentations which are presented to the qualifying examination committee. The first presentation is an overview of the student’s proposed research, including relevant literature, a proposed research plan and summary/results of current research. This presentation may serve as the basis for the Prospectus Defense as well. The second presentation summarizes a recent published scientific article on a topic not directly related to the candidate’s proposed dissertation research. The article must be approved by the student’s advisor prior to the exam.

3. Students who do not pass the exam may repeat the exam one time within 6 months, but no sooner than 3 months from the first attempt. Students who do not pass the oral qualifying exam on the second attempt will be severed from the program.

4. Students must schedule and take the oral qualifying exam within 1.5 years of satisfactorily completing the core Radiochemistry courses.

Students are required to participate in the weekly Radiochemistry seminar each semester they are in residence at UNLV. Students may only be exempted from this requirement due to scheduling conflicts, with the prior approval of their academic advisor.

2. Students must prepare and successfully defend their dissertation prospectus prior to the completion of their sixth semester. The prospectus will cover a review of the relevant literature, a statement of the problem or hypothesis to be examined and a research plan for the project. The prospectus will be defended to the student’s advisory committee and will be open to the general research community. All members of the student’s advisory committee must be present at the student’s prospectus defense.

3. Students are expected to write a dissertation demonstrating both knowledge of a specific topic and the ability to conduct high quality original research. The dissertation must be accepted by the student’s advisory committee prior to the completion of the degree program. Upon completion of the dissertation, the dissertation must be defended to the student’s advisory committee in a public dissertation defense.

4. To advance to candidacy, students are required to pass the oral qualifying exam and successfully defend their dissertation prospectus. Upon successful completion of the prospectus defense, students shall be promoted to Ph.D. candidate the term following the defense.

5. The dissertation must be written in collaboration with the student’s academic advisor and advisory committee. The dissertation must be accepted by the student’s advisory committee prior to the completion of the degree program. Students must enroll in six credits of dissertation work each semester they are working on the dissertation and the minimum number of dissertation credits required for graduation is twelve.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
**Master of Science - Biochemistry**

*Plan Description*

Our graduate programs offer exceptional research opportunities for advanced training in a wide variety of chemistry related disciplines including Organic, Physical, Analytical, Computational, Materials, Biochemistry, and Chemical Education. The graduate student to faculty ratio in the department is nearly one-to-one. Consequently, our diverse student body receives a high level of individualized interaction with excellent faculty through customized research projects, specialized course work, professional development, and graduate seminars. In addition, many of our research programs offer exciting interdisciplinary collaborations with local scientists, as well as with scientists nationally and internationally.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

*Plan Admission Requirements*

Application deadlines

Applications available on the UNLV Graduate College website.

Admission to the program requires an undergraduate degree in chemistry, chemical engineering, biology, biochemistry or a related discipline, with a cumulative GPA of 2.75, or of 3.00 for the last two years of undergraduate work. An application must be submitted to the Graduate College, with official transcripts of all college-level work. Two letters of recommendation from individuals able to assess the applicant’s potential as a graduate student should be sent directly to the department along with an additional set of transcripts. The GRE General Aptitude Test results must be received by the department prior to regular admission.

Individuals with apparent deficiencies in their undergraduate background may be required to enroll in selected courses in addition to those listed in the following section to satisfy M.S. degree requirements.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

*Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.*

*Plan Requirements*

Total Credits Required: 30

Course Requirements

Graduate Seminar Course – Credits: 2

- CHEM 791 - Graduate Seminar

Elective Courses – Credits: 18

Complete 18 credits of advisor-approved coursework electives. These courses may include but are not limited to:

- CHEM 672 - Biochemistry Laboratory
- CHEM 770 - Protein Chemistry
- CHEM 771 - Metabolism and Energetics
- CHEM 772 - Nucleic Acid Chemistry
- CHEM 773 - Physical Biochemistry
- BIOL 701 - Ethics in Scientific Research

Independent Study – Credits: 4

- CHEM 795 - Independent Study

Thesis – Credits: 6

- CHEM 798 - Thesis

*Degree Requirements*

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. No grade lower than C is acceptable, and only one grade below B- is permitted.
3. At least 12 credits of electives must be in courses at the 700-level.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Each student is required to present a departmental seminar on the student’s research prior to graduation. This requirement is in addition to the two credits of Graduate Seminar. Students are expected to attend weekly departmental seminars.
6. Each student is required to meet at least once per semester with the student’s examination committee. At the meeting in the semester prior to the expected term of graduation, the student will be asked to make a detailed presentation on research progress. The committee will then make recommendations to be addressed by the student during the remainder of the student’s research program, in writing the thesis, and in the final examination. The committee may request another meeting prior to the final exam if deemed necessary.
7. It is expected that each student be a teaching assistant for a minimum of two courses prior to graduation. It is also expected that each student publish at least one research-based manuscript in a peer-reviewed journal.
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Chemistry

*Plan Description*

Our graduate programs offer exceptional research opportunities for advanced training in a wide variety of chemistry related disciplines including Organic, Physical, Analytical, Computational, Materials, Biochemistry, and Chemical Education. The graduate student to faculty ratio in the department is nearly one-to-one. Consequently, our diverse student body receives a high level of individualized interaction with excellent faculty through customized research projects, specialized course work, professional development, and graduate seminars. In addition, many of our research programs offer exciting interdisciplinary collaborations with local scientists, as well as with scientists nationally and internationally.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

*Plan Admission Requirements*

Application deadlines

Applications available on the UNLV Graduate College website. Admission to the program requires an undergraduate degree in chemistry, chemical engineering, biology, biochemistry or a related discipline, with a cumulative GPA of 2.75, or of 3.00 for the last two years of undergraduate work. An application must be submitted to the Graduate College, with official transcripts of all college-level work. Two letters of recommendation from individuals able to assess the applicant’s potential as a graduate student should be sent directly to the department along with an additional set of transcripts. The GRE General Aptitude Test results must be received by the department prior to regular admission.

Individuals with apparent deficiencies in their undergraduate background may be required to enroll in selected courses in addition to those listed in the following section to satisfy M.S. degree requirements.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

*Plan Requirements*

Total Credits Required: 30

Course Requirements

Graduate Seminar Course – Credits: 2
  • CHEM 791 - Graduate Seminar

Elective Courses – Credits: 18

Complete 18 credits of elective coursework.

Independent Study – Credits: 4
  • CHEM 795 - Independent Study

Thesis – Credits: 6
  • CHEM 798 - Thesis

Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

2. No grade lower than C is acceptable, and only one grade below B- is permitted.

3. At least 12 credits of electives must be in courses at the 700-level.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Research and course work specializations are available in analytical chemistry, biochemistry, organic chemistry, and physical chemistry. The individual student’s program of course work must be selected in consultation with and approved by the student’s committee, and may include courses from selected disciplines other than chemistry, such as biology, physics, civil and environmental engineering, or water resources management.

6. Each student is required to present a departmental seminar on the student’s research prior to graduation.
This requirement is in addition to the two credits of Graduate Seminar. Students are expected to attend weekly departmental seminars.

7. Each student is required to meet at least once per semester with the student’s examination committee. At the meeting in the semester prior to the expected term of graduation, the student will be asked to make a detailed presentation on research progress. The committee will then make recommendations to be addressed by the student during the remainder of the student’s research program, in writing the thesis, and in the final examination. The committee may request another meeting prior to the final exam if deemed necessary.

8. It is expected that each student be a teaching assistant for a minimum of two courses prior to graduation. It is also expected that each student publish at least one research-based manuscript in a peer-reviewed journal.

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

**CHEM 602 - Scientific Software for the Microcomputer Credits 1**

Use of computer software for graphing, statistics, structure drawing, information retrieval, word processing, and self-paced learning. Notes: This course is crosslisted with CHEM 402. Credit at the 600-level requires additional work.

**CHEM 621 - Physical Chemistry Credits 3**

Thermodynamics, solution behavior, and equilibrium. Notes: This course is crosslisted with CHEM 421. Credit at the 600-level requires additional work.

**CHEM 622 - Physical Chemistry II Credits 3**

Introductory quantum mechanics, atomic and molecular structure, chemical bonding, and molecular spectroscopy. Notes: This course is crosslisted with CHEM 422. Credit at the 600-level requires additional work.

**CHEM 628 - Quantum Chemistry Credits 3**

Introduction to quantum mechanics and molecular orbital theory as related to bonding, spectra, and reactivity. Includes an introduction to computerized electronic structure calculations. Notes: This course is crosslisted with CHEM 428. Credit at the 600-level requires additional work.

**CHEM 631 - Advanced Inorganic Chemistry Credits 3**

Atomic structure, application of symmetry and molecular orbital theory to bonding, solid-state chemistry, characterization tools, acid-base behavior in non-aqueous systems, transition metal chemistry.

**CHEM 649 - Polymer Chemistry Credits 3**

Synthesis, characterization, morphology, bulk and solution properties of polymers; polymerization mechanisms. Notes: This course is crosslisted with CHEM 449. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

**CHEM 655 - Instrumental Analysis Credits 4**

Fundamental laws and principles of instrumental determinations, including spectroscopy, spectrophotometry, electrochemical methods, and thermal analysis as main areas of study. Notes: This course is crosslisted with CHEM 455. Credit at the 600-level requires additional work.

**CHEM 672 - Biochemistry Laboratory Credits 2**

Introduction to analytical techniques of biochemistry as tools to study cellular components. Techniques may include centrifugation, spectrophotometry, chromatography, and electrophoresis. Notes: This course is crosslisted with CHEM 472. Credit at the 600 level requires additional work. This course offered by another department may also be taken for graduate credit.

**CHEM 676 - Advanced Topics in Biochemistry Credits 3**

In depth study of selected advanced topics in biochemistry, cancer biochemistry or other medically-related topics in biochemistry. Notes: May be repeated (different topic) once for a total of 6 credits to be applied toward graduate degree program. This course is crosslisted with CHEM 476. Credit at the 600-level requires additional work. Prerequisites: CHEM 475, graduate standing or permission of instructor.

**CHEM 691 - Graduate Seminar in Chemistry Credits 1**

Attendance and participation in seminar presentations and discussions of specialized topics. Includes student presentations. Students required to enroll for a minimum of two semesters and present a minimum of two presentations. Notes: May be repeated to a maximum of six credits. Grading: S/F

**CHEM 710 - Environmental Aquatic Chemistry Credits 3**

Study of the chemistry of natural waters, emphasizing chemical speciation and the interaction of aqueous media with soil and air. Considerable attention given to the use and limitations of thermodynamic equilibrium models of chemical speciation. Prerequisites: Graduate standing or consent of instructor.

**CHEM 715 - Environmental Organic Chemistry Credits 3**

Organic chemistry of natural waters, soils and the atmosphere, emphasizing chemical reactions, sorption, bio-concentration and fate and transport. Use and limitation of thermodynamic and kinetic models and the extrapolation of laboratory data to environmental conditions. Prerequisites: Graduate standing in chemistry or consent of instructor.

**CHEM 725 - Advanced Organic Chemistry Credits 3**

Advanced study of structures and reactions of organic compounds. Reactive intermediates, reaction mechanism, stereochemistry, and synthesis examined. Prerequisites: CHEM 242 and 421.

**CHEM 726 - Organic Synthesis Credits 3**

Study of the synthesis of complex organic molecules. Stereochemistry, use of organometallic reagents and chiral auxiliaries stressed, with considerable emphasis on current literature. Prerequisites: CHEM 242, 421

**CHEM 735 - Advanced Physical Chemistry Credits 3**

Statistical and quantum mechanics and their use in calculating thermodynamic properties. Prerequisites: CHEM 421 and 428
CHEM 745 - Instrumental Analysis-Inorganic  Credits 3
Theory of modern analytical instrumentation as it pertains to inorganic analysis. Notes: May include atomic emission and absorption, x-ray, radioactivity and mass spectroscopic methods.

CHEM 749 - Polymer Chemistry  Credits 3
Polymer structure; classification of polymerization reactions, step-growth and chain-growth polymerization reactions; condensation, radical, cationic, and anionic polymerization reactions; physical properties and characterization of polymers. Prerequisites: Consent of instructor.

CHEM 750 - Quality Assurance and Statistics  Credits 3
Purpose, theory, and applications of quality assurance/quality control. Experimental design including development of sampling protocols. Statistics relating to the evaluation of data quality covered. Notes: Not a theoretical statistics course. Prerequisites: STA 161 and CHEM 455.

CHEM 770 - Protein Chemistry  Credits 3
Protein structure and function. Enzymology (kinetics, regulation). Survey of techniques used in protein purification and analysis. Prerequisites: CHEM 475 or equivalent.

CHEM 771 - Metabolism and Energetics  Credits 3
Biochemical pathways of carbohydrate, lipid, nucleic acid and amino acid metabolism and the mechanism of mitochondrial ATP synthesis. Prerequisites: CHEM 475

CHEM 772 - Nucleic Acid Chemistry  Credits 3
Chemistry and function of nucleic acids (DNA, RNA) and their analogs. Prerequisites: CHEM 475 or equivalent.

CHEM 773 - Physical Biochemistry  Credits 3
Theory and practice of physical chemistry as applied to the structure, properties, and interactions of biochemical macromolecules. Includes thermodynamics, various types of spectroscopy, electrophoresis, ligand binding, and hydrodynamic methods (covering the theoretical aspects of diffusion, sedimentation, and viscosity). Prerequisites: CHEM 475

CHEM 775 - Bioanalytical Environmental Toxicology  Credits 3
Principles of toxicology. Study of the interaction of toxicants with biochemical pathways. Emphasis on toxic chemicals of environmental interest. Prerequisites: CHEM 475

CHEM 783 - Spectral Interpretation  Credits 3
Spectroscopic data obtained from the techniques of nuclear magnetic resonance (NMR), mass spectrometry (MS), infrared (IR) and ultraviolet-visible (UV-VIS) spectrophotometry used to establish structural features of organic molecules. Emphasizes strategies, interpretation, modern techniques, and problem solving. Prerequisites: Consent of instructor.

CHEM 790 - Directed Readings  Credits 1
Directed readings in the primary literature supportive of the dissertation prospectus. Notes: May be repeated, but only three credits are applied to the academic program. Prerequisites: Enrollment in the Chemistry or Radiochemistry doctoral program.

CHEM 791 - Graduate Seminar  Credits 1
Attendance and participation in seminar presentations. Includes student presentations. For master’s students, enrollment is required. Two presentations are required. Notes: May be repeated for a maximum of five credits. Gradning: S/F Prerequisites: Graduate standing in Chemistry or Radiochemistry.

CHEM 792 - Research Seminar  Credits 3
Public defense of a graduate research project in the Ph.D. Program. Prerequisites: Graduate standing in Chemistry or Radiochemistry.

CHEM 793 - Special Topics  Credits 3
Study of a topic of interest from any field of chemistry (for example, analytical chemistry, biochemistry, etc.), at an advanced level. Topic varies each semester. Topic chosen will be published in the class schedule. Notes: May be repeated for credit if classes are in different topics. Prerequisites: Graduate standing in Chemistry or Biochemistry or Radiochemistry.

CHEM 795 - Independent Study  Credits 1 – 3
Individual directed study of a topic not covered in other courses. Notes: May be repeated once for credit. May be repeated to a maximum of 12 credits. Prerequisites: Graduate standing in chemistry and consent of instructor.

CHEM 796 - Dissertation Prospectus  Credits 1
Development of a prospectus and its defense before the Ph.D. examination committee. Prerequisites: Enrollment in the Chemistry or Radiochemistry doctoral program.

CHEM 797 - Directed Research  Credits 1 – 6
Supervised research in the doctoral program. Notes: May be repeated for a maximum of 18 credits. Prerequisites: Enrollment in the Chemistry or Radiochemistry doctoral program.

CHEM 798 - Thesis  Credits 3 – 6 Notes: May be repeated, but only nine credits applied to the student’s program. Gradning: S/F grading only. Prerequisites: Graduate standing in Chemistry or Radiochemistry and consent of instructor.

CHEM 799 - Dissertation  Credits 3 – 6
Research, analysis, and writing toward completion of dissertation and subsequent defense. Notes: May be repeated but a minimum of eighteen credits and a maximum of twenty four credits will be applied toward fulfillment of degree requirements. Gradning: S/F grading only. Prerequisites: Graduate standing in Chemistry or Radiochemistry and consent of instructor.

RDCH 701 - Applied Nuclear Physics  Credits 3
Introduces nuclear properties in radiation and radiochemistry. Concepts of the nuclei, radioactive decay, and nuclear reactions examined. Use of quantum mechanics in development of nuclear models and equations. Physics involved in interaction of radiation with matter. Prerequisites: General physics, graduate standing in Radiochemistry program.

RDCH 702 - Radiochemistry  Credits 3
Introduces chemical properties in radiation and radiochemistry. Use of stability constants and relationship between speciation, kinetics and thermodynamics. Influence of radiolysis on chemistry of radioisotopes. Radioisotope production and use. Radiochemical separations. Prerequisites: Inorganic chemistry, physical chemistry, graduate standing in Radiochemistry program.

RDCH 710 - Actinide Chemistry  Credits 3
Basis for unique chemistry of actinide elements described and related to oxidation-reduction, complexation, forbtial interaction, and spectroscopy. Using nuclear properties in understanding actinide chemistry covered. Presentations on exploiting chemical behavior of actinides in separation, nuclear fuel cycle, environmental behavior, and materials. Prerequisites: RDCH 702, graduate standing in Radiochemistry program.

RDCH 750 - Radiochemistry Laboratory Research  Credits 3
Experimental laboratory research conducted by the student under supervision. The student supplies research topic and provides suitable literature and background information. Research plan developed in conjunction with instructor. The student obtains experience in performing radiochemical laboratory research. Prerequisites: Undergraduate chemistry laboratory experience, graduate standing in the Radiochemistry program.
The Department of Geoscience is an active and enthusiastic department consisting of twenty-two full-time faculty, approximately sixty graduate students and one hundred undergraduate majors. The department offers a program of courses, seminars and research opportunities leading to master of science and doctor of philosophy degrees in geoscience. The interests of the faculty and students cover a wide range of topics. Active research by faculty and students is ongoing throughout the western United States, as well as in, Canada, Chile, China, Costa Rica, Indonesia, France, Guatemala, Mexico, New Zealand, Panama, Poland, Russia, South Africa, Spain, and Switzerland. The geoscience curriculum is designed to develop student skills applicable to employment opportunities in a wide array of disciplines in the geoscience sector.

The department encourages interdisciplinary research. Opportunities for geological and interdisciplinary research may be pursued with organizations near, or on, campus that cooperate with the department including: the Division of Hydrologic Sciences of the Desert Research Institute (DRI), a division of the University and Community College System of Nevada; the Environmental Monitoring and Support Laboratory of the Environmental Protection Agency (EPA); the Department of Energy; and other university departments and schools such as life sciences, chemistry, physics, and engineering.

Students are encouraged to read the general Graduate College rules and regulations elsewhere in this catalog and to read the Department of Geoscience graduate student guidelines, which are available on the department’s website. An understanding of these documents is essential for satisfactory progress toward the degree.

Rodney V. Metcalf, Ph.D., Chair
Gangqing Jiang, Ph.D., Graduate Program Coordinator

Geoscience Faculty

Chair
Metcalf, Rodney V. - Full Graduate Faculty Associate Professor; B.S., M.S., University of Kentucky; Ph.D., University of New Mexico. Rebel since 1991.

Graduate Coordinator
Jiang, Gangqing Q. - Full Graduate Faculty Professor; B.A., Xiangtan Mining College; M.Sc., China University of Geosciences; Ph.D., Columbus University. Rebel since 2004.

Graduate Faculty
Bonde, Josh - Full Graduate Faculty Assistant Professor in Residence; B.S., University of Nevada Reno; M.S., Montana State University; Ph.D., University of Nevada Las Vegas. Rebel since 2014.

Buck, Brenda - Full Graduate Faculty Professor; B.S., University of Notre Dame; M.S., Ph.D., New Mexico State University. Rebel since 1998.

Burnley, Pamela - Full Graduate Faculty Associate Research Professor; B.S., Brown University; M.S., Ph.D., University of California Davis. Rebel since 2008.

Hanson, Andrew - Full Graduate Faculty Associate Professor; B.S., Montana State University; M.S., San Diego State University; Ph.D., Stanford University. Rebel since 2000.

Hausrath, Elisabeth - Full Graduate Faculty Associate Professor; B.S., Brown University; Ph.D., Pennsylvania State University. Rebel since 2009.

Huang, Shichun - Full Graduate Faculty Assistant Professor; B.S., University of Science and Technology of China; Ph.D., Massachusetts Institute of Technology. Rebel since 2014.

Jowitt, Simon - Full Graduate Faculty Assistant Professor; B.S., University of Edinburgh; M.S., University of Exeter; Ph.D., University of Leicester. Rebel since 2016.

Judkins, Gabriel - Full Graduate Faculty Assistant Professor in Residence; B.S., State University of New York Geneseo; M.S., Ph.D., Arizona State University. Rebel since 2009.

Kreamer, David K. - Full Graduate Faculty Professor; B.S., M.S., Ph.D., University of Arizona. Rebel since 1990.

Nicholl, Michael J. - Full Graduate Faculty Associate Professor; B.S., Eastern Michigan University; M.S., Ph.D., University of Nevada, Reno. Rebel since 2004.

Ren, Minghua - Associate Graduate Faculty Assistant Research Professor; B.S., Nanjing University; M.S., Ph.D. Baylor University. Rebel since 2011.

Rowland, Stephen M. - Full Graduate Faculty Professor; A.B., University of California, Berkeley; Ph.D., University of California, Santa Cruz. Rebel since 1978.

Spell, Terry - Full Graduate Faculty Associate Professor; B.S., West Georgia College; M.S., New Mexico Institute of Mining and Technology; Ph.D., State University of New York, Albany. Rebel since 1996.

Taylor, Wanda J. - Full Graduate Faculty Professor; B.S., University of Minnesota; M.S., Syracuse University; Ph.D., University of Utah. Rebel since 1991.

Tschauer, Oliver - Associate Graduate Faculty Associate Research Professor; B.S., M.S., Ph.D. (Dr. rer. nat.), University of Cologne. Rebel since 2008.

Udry, Arya - Full Graduate Faculty Assistant Professor; B.S., M.S., Universite de Lausanne (Switzerland); Ph.D., University of Tennessee. Rebel since 2014.

Wells, Michael L. - Full Graduate Faculty Professor; B.S., University of California, Santa Cruz; M.S., Ph.D., Cornell University. Rebel since 1993.

Yu, Zhongbo - Full Graduate Faculty Professor; B.S., Hohai University; M.S., University of Southern Mississippi; Ph.D., Ohio State University. Rebel since 1999.

Professors Emeriti
Bachhuber, Frederick W. Emeritus Professor; B.S., M.S., University of Wisconsin; Ph.D., University of New Mexico. UNLV Emeritus 1974-2002.

Cline, Jean S. - Full Graduate Faculty Emeritus Professor; B.S., Wisconsin State University; M.S., University of Arizona; Ph.D., Virginia Polytechnic Institute and State University. UNLV Emeritus 1990-2014.

Smith, Eugene I. - Full Graduate Faculty Emeritus Professor; B.S., Wayne State University; M.S., Ph.D., University of New Mexico. UNLV Emeritus 1980-2013.
Doctor of Philosophy - Geoscience

Plan Description

The Doctor of Philosophy – Geoscience degree is designed to prepare students for demanding research-oriented careers in academia, government service, private consulting, and industry. Working closely with their advisors, students focus on original research in an emphasis area. Research expectations are high; students are expected to develop original lines of research that will lead to three or more original manuscripts that are suitable for submission to a refereed scientific journal. Students are expected to have strong content knowledge in their area of emphasis and three additional sub-disciplines of the geologic sciences. Fundamental knowledge levels are tested first in a diagnostic interview that is used to guide coursework taken by the student, and then later in a comprehensive exam.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

The emphasis in Geology includes the fields of economic geology, environmental geology, geochemistry, geochronology, geomorphology, igneous petrology, paleontology, metamorphic petrology, Quaternary geology, paleoclimatology, pedology, sedimentology, stratigraphy, structural geology, surficial processes, tectonics, and volcanology. Applicants must satisfy the following requirements:

1. For the Post-Bachelor’s Track: A bachelor’s degree in geology or equivalent.
2. For the Post-Master’s Track: A Master of Science degree in geology or equivalent.
3. It is recommended that the student have completed the following courses for unconditional admission to the program. An introductory geology class and six of the following eight classes (or their equivalents): mineralogy, geochemistry, geomorphology, structural geology, igneous and metamorphic petrology, paleontology, field geology, and sedimentology/stratigraphy.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s - Geoscience Track

Total Credits Required: 60

Course Requirements

Required Course – Credits: 3
- GEOL 701 - Research Methods in Geoscience

Elective Courses – Credits: 45
Complete 45 credits of 600- or 700-level GEOL courses, or other advisor-approved courses.

Dissertation – Credits: 12
- GEOL 799 - Dissertation

Degree Requirements

1. Students must complete a minimum of 60 credit hours with a minimum GPA of 3.00.
2. A minimum of 24 of the 60 credits required must be at the 700-level.
3. Although more course work and dissertation credits may be taken, only 12 credits of Dissertation, and 48 course credits will be counted toward the degree program.
4. Doctoral students are encouraged to take courses from outside of geoscience; however, a minimum of 15 credits must be geoscience (GEOL) courses.
5. A maximum of three credits of Independent Study are permitted, except in special circumstances in which case permission from the doctoral advising committee, the department Graduate Coordinator and the department chair is required.
6. Satisfactory progress toward meeting the degree requirements is required of all candidates. Satisfactory progress is defined as, at a minimum:
   1. Maintenance of at least a 3.00 grade point average in all graduate-level courses. Two grades of B- are permitted in the degree program as long as the GPA remains at or above 3.00. One grade of C+ or lower results in academic probation even if the overall GPA is above 3.0. Two grades of C+ or lower will result in automatic suspension from the program.
   2. Selecting a dissertation advisor and committee. The advisor must be selected before the end of the first semester and the committee before the end of the second semester.
   3. Scheduling of an interview with the advisor either during or before the first semester. If an
advisor is not selected, a temporary advisor will be assigned by the graduate coordinator. The purpose of the interview is to develop a plan of course work for the first year.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Scheduling of a diagnostic interview with the Advisory Committee before the end of the 2nd semester. The purpose of the interview is to develop a list of recommended courses and design the student’s degree program, which must be submitted prior to completing 16 credits of course work toward the degree.

6. Preparation of a dissertation proposal and satisfactory performance on a Proposal Defense Examination. This examination must be completed prior to the end of the third semester. The Proposal Defense Examination focuses on the dissertation proposal and the student’s ability to perform the research. It includes a formal oral presentation of the student’s dissertation proposal, research to date, and questions by the dissertation advisory committee on the dissertation topic. The Proposal Defense Examination is to be taken prior to the Comprehensive Examination.

7. Satisfactory performance on the Comprehensive Examination. Ph.D. students must have a basic knowledge of Physical Geology in addition to a comprehensive knowledge of three fields of geosciences (see Department of Geoscience Graduate Student Guidelines for recommended fields for each Ph.D. Emphasis). The format and content of the exam will be determined by the student’s doctoral advisory committee with approval of the department graduate coordinator. The Comprehensive Examination will be taken either the semester after all course work is completed or before the end of the fourth semester, whichever comes first. The Comprehensive Examination can be taken either entirely as an oral examination or with both oral and written components. The decision of which of these options to take is decided by unanimous agreement by the student’s doctoral advisory committee. In the case of non-unanimous agreement, both the oral and written components will be given.

8. Preparation of a dissertation proposal and satisfactory performance on a Proposal Defense Examination. This examination must be completed prior to the end of the fifth semester. The Proposal Defense Examination focuses on the dissertation proposal and the student’s ability to perform the research. It includes a formal oral presentation of the student’s dissertation proposal, research to date, and questions by the dissertation advisory committee on the dissertation topic. The Proposal Defense Examination is to be taken after the Comprehensive Examination.

9. Students who fail to pass the Comprehensive Examination or Proposal Defense on the first attempt must successfully complete a second examination (as specified by the doctoral advisory committee) within the next six months to remain in the program. Students who entered the program with a baccalaureate degree and who fail the second examination may be allowed to continue as a Master of Science student with the consent of the doctoral advising committee. Students who entered the program with a master’s degree who fail the examination a second time will be separated from the program. A student who has successfully passed both the Proposal Defense and Comprehensive Examinations will be admitted to candidacy for the Ph.D. degree.

10. Satisfactory performance on a final examination will consist of the presentation and defense of the dissertation research. The defense will consist of an oral presentation open to the public, a short period of questions from the public, a closed session of questions from the doctoral advising committee, and a closed deliberation and vote by just the advisory committee members. Any graduate faculty member may attend the closed session of questions of the defense.

7. Using Degree Audit as a guide, a degree program must be approved by the advisory committee prior to the beginning of the third semester of enrollment.

8. It is recommended that the student be a teaching assistant or instructor for at least one semester.

9. Students may request a maximum of 15 graduate credits taken at UNLV prior to admission be included in the graduate degree program, providing those credits were not used to fulfill undergraduate requirements and a grade of B (3.00) or higher was achieved.

Graduation Requirements

See Plan Graduation Requirements below.
Subplan 2 Requirements: Post-Master’s - Geoscience Track
Total Credits Required: 36

Course Requirements

Required Course – Credits: 3
• GEOL 701 - Research Methods in Geoscience

Elective Courses – Credits: 21
Complete 21 credits of 600- or 700-level GEOL courses, or other advisor-approved courses.

Dissertation – Credits: 12
• GEOL 799 - Dissertation

Degree Requirements
1. Students must complete a minimum of 36 credit hours with a minimum GPA of 3.00.
2. A minimum of 12 of the 36 credits required must be at the 700-level.
3. Although more course work and dissertation credits may be taken, only 12 credits of Dissertation, and 24 course credits will be counted toward the degree program.
4. Doctoral students are encouraged to take courses from outside of geoscience; however, a minimum of 15 credits must be geoscience (GEOL) courses.
5. A maximum of three credits of Independent Study are permitted, except in special circumstances in which case permission from the doctoral advising committee, the department Graduate Coordinator and the department chair is required.
6. Satisfactory progress toward meeting the degree requirements is required of all candidates. Satisfactory progress is defined as, at a minimum:
   1. Maintenance of at least a 3.00 grade point average in all graduate-level courses. Two grades of B- are permitted in the degree program as long as the GPA remains at or above 3.00. One grade of C+ or lower results in academic probation even if the overall GPA is above 3.0. Two grades of C+ or lower will result in automatic suspension from the program.
   2. Selecting a dissertation advisor and committee. The advisor must be selected before the end of the first semester and the committee before the end of the second semester.
   3. Scheduling of an interview with the advisor either during or before the first semester. If an advisor is not selected, a temporary advisor will be assigned by the graduate coordinator. The purpose of the interview is to develop a plan of course work for the first year.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Scheduling of a diagnostic interview with the Advisory Committee before the end of the 2nd semester. The purpose of the interview is to develop a list of recommended courses and design the student’s degree program, which must be submitted prior to completing 16 credits of course work toward the degree.
6. Satisfactory performance on the Comprehensive Examination. Ph.D. students must have a basic knowledge of Physical Geology in addition to a comprehensive knowledge of three fields of geosciences (see Department of Geoscience Graduate Student Guidelines for recommended fields for each Ph.D. Emphasis). The format and content of the exam will be determined by the student’s doctoral advisory committee with approval of the department graduate coordinator. The Comprehensive Examination will be taken either the semester after all course work is completed or before the end of the fourth semester, whichever comes first. The Comprehensive Examination can be taken either entirely as an oral examination or with both oral and written components. The decision of which of these options to take is decided by unanimous agreement by the student’s doctoral advising committee. In the case of non-unanimous agreement, both the oral and written components will be given.
7. Preparation of a dissertation proposal and satisfactory performance on a Proposal Defense Examination. This examination must be completed prior to the end of the third semester. The Proposal Defense Examination focuses on the dissertation proposal and the student’s ability to perform the research. It includes a formal oral presentation of the student’s dissertation proposal, research to date, and questions by the dissertation advisory committee on the dissertation topic. The Proposal Defense Examination is to be taken after to the Comprehensive Examination.
8. Students who fail to pass the Comprehensive Examination or Proposal Defense on the first attempt must successfully complete a second examination (as specified by the
doctoral advisory committee) within the next six months to remain in the program. Students who entered the program with a baccalaureate degree and who fail the second examination may be allowed to continue as a Master of Science student with the consent of the doctoral advising committee. Students who entered the program with a master’s degree who fail the examination a second time will be separated from the program. A student who has successfully passed both the Proposal Defense and Comprehensive Examinations will be admitted to candidacy for the Ph.D. degree.

9. Satisfactory performance on a final examination will consist of the presentation and defense of the dissertation research. The defense will consist of an oral presentation open to the public, a short period of questions from the public, a closed session of questions from the doctoral advising committee, and a closed deliberation and vote by just the advisory committee members. Any graduate faculty member may attend the closed session of questions of the defense.

7. Using Degree Audit as a guide, a degree program must be approved by the advisory committee prior to the beginning of the third semester of enrollment.

8. It is recommended that the student be a teaching assistant or instructor for at least one semester.

9. Students may request a maximum of 15 graduate credits taken at UNLV prior to admission be included in the graduate degree program, providing those credits were not used to fulfill undergraduate requirements and a grade of B (3.00) or higher was achieved.

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Geoscience

Plan Description

The Master of Science – Geoscience degree is designed to prepare students for a broad range of challenging careers in government service, private consulting, and industry. This thesis-based degree program also serves as a stepping-stone for those students who wish to pursue further graduate studies at the Doctoral level. Working closely with their advisor, students focus on original research in one of several areas of specialization, including: petrology, volcanology, economic geology, structural geology, sedimentology, geochemistry, hydrology, soil science, climate change, petroleum geology, and paleontology. Students are expected to develop original research suitable for submission to a refereed scientific journal. Students are expected to have strong content knowledge in their area of emphasis, which is tested during the culminating defense of their thesis research.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Geoscience

The Geoscience MS degree includes the fields of economic geology, environmental geology, geochemistry, geochronology, geomorphology, igneous petrology, paleontology, metamorphic petrology, Quaternary geology, pedology, sedimentology, stratigraphy, structural geology, surficial processes, tectonics, and volcanology. Applicants must satisfy the following requirements:

1. A bachelor’s degree in geology or an appropriate but closely-related equivalent.

2. In order to be admitted without contingencies the student must have completed an introductory geology class and six of the following eight classes (or their equivalents): mineralogy, geochemistry, geomorphology, structural geology, igneous and metamorphic petrology, paleontology, field geology, and sedimentology/stratigraphy.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements: Geoscience

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 4

- GEOL 701 - Research Methods in Geoscience
- GEOL 795 - Poster Presentation and Time Management

Elective Courses – Credits: 20

Complete 20 credits of 600- or 700-level GEOL courses, or other advisor-approved courses.

Thesis – Credits: 6

- GEOL 797 - Thesis

Plan Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

2. At least 12 credits (excluding thesis) must be in 700-level courses.

3. GEOL 701 and GEOL 795 must be taken during the first year of enrollment. Credits taken at other institutions will be considered for transfer; however, at least 16 of the 24 course credits required for the degree (not including thesis credits) must be taken at UNLV.

4. Students must confer with their appointed advisor prior to enrollment in their first semester. Using Degree Audit as a guide, a degree program must be approved by the advisory committee. A thesis prospectus must be filed with the Graduate College, and a thesis committee must be appointed by the end of the second semester after admission to the college. This responsibility rests with the student. Students will be dropped from the program and separated from the Graduate College if they fail to fulfill this requirement.

5. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

6. Satisfactory progress toward meeting the degree requirements is required of all students. Satisfactory progress includes maintaining at least a 3.00 grade point average in all graduate-level courses. Two grades of B- are permitted in the degree program as long as the GPA remains at or above 3.00. One grade of C+ or lower results in academic probation even if the overall GPA is above 3.0. Two grades of C+ or lower will result in automatic suspension from the program.

Consult the Geoscience Graduate Student Guidelines at http://geoscience.unlv.edu/graduateteststudentguidelines.htm for full details.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

GEOL 610 - Soil Classification and Resource Management

Morphology and classification of soils based on their physical, chemical and mineralogical composition. Introduction to soil genesis, soil mapping, and the relationship of soils to the limitations and potentials of land use. Notes: This course is crosslisted with GEOL 410. Credit at the 600-level requires additional work.

GEOL 619 - Medical Geology

Medical Geology is the science surrounding the relationship between geological factors and health in humans, animals, and plants. This class focuses on the relationships between geology and human health. Notes: This course is crosslisted with GEOL 419. Credit at the 600-level requires additional work.

GEOL 625 - Principles of Geochemistry

Fundamental geochemical processes operating within the earth’s lithosphere, hydrosphere and atmosphere. Topics include chemical differentiation of the earth, crystal chemistry, mineral stability and phase diagrams, aqueous geochemistry, isotope geochemistry, organic chemistry. Notes: This course is crosslisted with GEOL 425. Credit at the 600-level requires additional work. Prerequisites: College level chemistry or geochemistry.

GEOL 629 - Geochemical Thermodynamics and Kinetics

Survey of the basic principles of thermodynamics and kinetics and their application to geological processes; applications to include igneous, metamorphic, hydrothermal, diagenetic, weathering, and aqueous systems. Notes: This course is crosslisted with GEOL 429. Credit at the 600-level requires additional work.

GEOL 630 - Geographic Information Systems (GIS): Theory and Applications

Survey of computer-based techniques in the storage, retrieval, analysis, and representation of spatially referenced data. Emphasis on the application of GIS technology to geologic problems such as natural hazard mapping, surface runoff and erosion, and environmental impact assessment. Notes: This course is crosslisted with GEOL 430. Credit at the 600-level requires additional work.

GEOL 636 - Quaternary Paleocoeology

Examination of the fossil record of the Quaternary including vertebrate, invertebrate, and floral assemblages. Emphasis on paleoenvironmental and paleoclimatological reconstructions. Notes: This course is crosslisted with GEOL 436. Credit at the 600-level requires additional work.
GEOL 637 - Paleoclimatology Credits 3
Paleoclimatic history of the Earth, with emphasis on the Neogene and Quaternary Periods. Survey of marine and terrestrial geological records of paleoclimate, including physical sedimentology, geochemistry, and pollen profiles of ice and sediment cores and speleothems. Notes: This course is crosslisted with GEOL 437. Credit at the 600-level requires additional work.

GEOL 640 - Volcanology Credits 3
Description and classification of volcanoes, volcanic eruptions, and volcanic deposits. Emphasis on the dynamics of volcanic eruptions, pyroclastic rocks, lava flows, and volcanic hazard assessment. Notes: This course is crosslisted with GEOL 440. Credit at the 600-level requires additional work.

GEOL 643 - Plate Tectonics Credits 3
Study of the earth’s origin, age, thermal and magnetic history; the dynamics and internal structure of lithospheric plates; the mechanisms and geometric constraints of plate motion; and a review of the motions of plates in the past. Notes: This course is crosslisted with GEOL 443. Credit at the 600-level requires additional work.

GEOL 644 - Tectonics of Orogenic Belts Credits 3
Study of crustal deformation and the creation of mountain belts around the world. Emphasis on the comparative structural development of different regions around the globe within the context of plate tectonics. Notes: This course is crosslisted with GEOL 444. Credit at the 600-level requires additional work.

GEOL 645L - Geophysical Methods Lab Graduate credit may be obtained for courses designated 600 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Notes: This course is crosslisted with GEOL 445L. Credit at the 600-level requires additional work.

GEOL 646 - Geologic Applications in Remote Sensing Credits 3
Introduction in the acquisition, processing, and interpretation of remote sensing data. Topics covered include basic mapping concepts, the structure of remote sensing data and analysis, thermal and radar techniques, and classification schemes. Notes: This course is crosslisted with GEOL 446. Credit at the 600-level requires additional work.

GEOL 646L - Geologic Applications in Remote Sensing Lab Graduate credit may be obtained for courses designated 600 or above. A full description of this course may be found in the Undergraduate Catalog under the corresponding 400 number. Notes: Credit at the 600-level normally requires additional work.

GEOL 649 - Geochronology Credits 3
Theoretical foundations and modern analytical techniques used in isotopic dating of rocks. Discussion of applications to specific geologic problems and the thermal significance of isotopic dates. Survey of new dating techniques. Notes: This course is crosslisted with GEOL 449. Credit at the 600-level requires additional work.

GEOL 670 - Planetary Geology Credits 3
Examines geologic processes throughout our solar system. Compares geologic processes on extraterrestrial bodies to those that occur on Earth. This course is crosslisted with GEOL 470. Credit at the 600-level requires additional work.

GEOL 671 - Petroleum Geology Credits 4
Origin, migration, accumulation, and geologic distribution of petroleum. Surface, sub-surface and geophysical methods of exploration. Notes: This course is crosslisted with GEOL 471. Credit at the 600-level requires additional work.

GEOL 674 - Hydrogeology Credits 3
Factors controlling the occurrence and distribution of water resource, its quality and quantity, methods of exploration and development. Notes: This course is crosslisted with GEOL 474. Credit at the 600-level requires additional work.

GEOL 675 - Contaminant Hydrogeology - Hazardous Site Assessment and Remediation Credits 3
Theory and practical application of characterization and cleanup techniques for contaminated sites will be covered, including: understanding different pollutants, environmental law and agency guidance, hydrology and contaminant transport processes, non-invasive techniques, typical and innovative monitoring, sampling procedures, natural and enhanced degradation, and effective and emerging cleanup approaches. Notes: This course is crosslisted with GEOL 475. Credit at the 600-level requires additional work. Prerequisites: GEOL 674

GEOL 677 - Geology of Metallic Ore Deposits Credits 4
Geology of metallic ore deposits, origin, occurrence, and alteration. Application of ore deposit characteristics to exploration. Notes: This course is crosslisted with GEOL 477. Credit at the 600-level requires additional work.

GEOL 678 - Hydrogeochemistry Credits 3
Principles of aquatic geochemistry such as chemical thermodynamics, tableaux, and oxidation reduction and environmental organic geochemistry such as physicochemical properties of organic compounds and air/water/soil exchange of organic compounds for environmental studies. Concepts for practical environmental problems, geochemical modeling, and contaminant transport. Notes: This course is crosslisted with GEOL 478. Credit at the 600-level requires additional work.

GEOL 685 - Engineering Geology Credits 3
Application of physical geology to the construction industry. Consideration given to landslide problems, sites for dams, bridges, tunnels and canals; and possible control of erosion and sedimentation by rivers and oceans. Notes: This course is crosslisted with GEOL 485. Credit at the 600-level requires additional work.

GEOL 701 - Research Methods in Geoscience Credits 3
Discussion of the processes of scientific research and research design as applied to modern geoscience. Includes scientific approaches to field and laboratory research, research and professional ethics, writing, and public presentation. Model thesis prospectus and grant proposals prepared. Notes: Required weekend field trips familiarize students with the local geology. Prerequisites: Graduate standing or consent of instructor.

GEOL 703 - Topics in Advanced Geochemistry Credits 3
This course will cover topics in advanced geochemistry, such as thermodynamics, kinetics, oxidation-reduction, acids and bases, weathering, and other topics of interest. Notes: May be repeated to a maximum of twelve credits.

GEOL 707 - Stable Isotope Geochemistry Credits 3
Investigates stable isotopes in the hydrologic and geologic cycles, and their use as tracers in paleoclimatology, hydrogeology, and oceanography. Theory and research applications of stable isotopes in geologic, biologic, water, and atmospheric samples, including carbon, oxygen, hydrogen, nitrogen, strontium, and sulfur isotopes. Prerequisites: Geochemistry.

GEOL 708 - Radiogenic Isotope Geochemistry Credits 3
Principles of radiogenic isotope geochemistry as a monitor of geochemoal processes in the mantle, lithosphere and hydrosphere; applications to petrology, tectonics, economic geology, marine geology and paleoclimatology. Prerequisites: GEOL 330, GEOL 426, MATH 181 or equivalent, or consent of instructor.

GEOL 709 - Field Methods in Hydrogeology Credits 3
A survey of techniques used to investigate field problems in hydrogeology. Data collection, analysis, and professional presentation of results are emphasized. Topics may include: water balance measures, water table mapping, estimation of hydraulic parameters, and ground-water monitoring. Additional topics suggested by students may also be explored.

GEOL 710 - Igneous Petrology Credits 3
Origin of igneous rocks, relation of magma types to tectonic settings, physical properties of magmas, application of trace elements and isotopes to petrogenesis, modeling of crystal fractionation and partial melting, phase diagrams.
GEOL 711 - Principles of Hydrology and Hydraulics Credits 3
Consideration of modern concepts of hydrology and hydraulics. Includes coverage of statistical methods of analysis, unsteady flow, channel design, modeling and simulation, urban hydrology, and design of hydraulic structures. Prerequisites: Consent of instructor.

GEOL 712 - Watershed Hydrology Credits 3
Concepts and processes controlling water movement and distribution within the watershed; analysis techniques for understanding watershed dynamics; numerical simulation of various watershed-scale hydrologic processes. Prerequisites: Consent of instructor.

GEOL 715 - Advanced Hydrogeology Credits 4
Advanced concepts used in ground water investigations, including flow system analysis, resource evaluation, exploration, development, and monitoring. Prerequisites: GEOL 674

GEOL 719 - Vadose Zone Hydrology Credits 3
Basic physical properties of soils and water and the physical principles governing the soil-water system. Modeling the transport of moisture and chemicals in unsaturated soil with applications to practical field problems. Prerequisites: GEOL 674

GEOL 725 - Seminar in Petrology Credits 3
Analysis of current problems, concepts, and research in petrology and closely related fields. Prerequisites: Graduate standing or consent of instructor.

GEOL 727 - Metamorphic Petrology Credits 4
Application of field studies, petrography, mineralogy, phase equilibria, and isotopic methods to the study of metamorphic rocks and crustal evolution; explores relationships among metamorphism, tectonics and thermal evolution of the crust. Notes: Three hours lecture, three hours laboratory. Prerequisites: GEOL 429/629 or equivalent and graduate standing, or consent of instructor.

GEOL 730 - Seminar in Quaternary Studies Credits 3
Evaluation of current methodology focused on solving problems of Quaternary chronology, geomorphic processes, and environmental reconstruction. Emphasis on pluvial and post-pluvial environments of the western United States, the evolution of landforms and the development of stratigraphic units and surficial geology originating during the past three million years. Prerequisites: Graduate standing or consent of instructor.

GEOL 735 - Seminar in Environmental Geology Credits 3
Application of basic geologic concepts to environmental problems: emphasis on geologic hazards, waste disposal, urban planning, resource policy issues, and environmental programs. Prerequisites: GEOL 672 or equivalent or consent of instructor.

GEOL 742 - Seminar in Volcanology Credits 3
Analysis of current problems, concepts, and research in volcanology and closely related fields. Prerequisites: Graduate standing or consent of instructor.

GEOL 744 - Tectonics and Structures Credits 3
Analysis of upper crustal deformation with emphasis on faulting, neotectonics and seismic interpretation; includes a group research project with field and literature data collection, analysis and results suitable for presentation at a professional conference. Prerequisites: Consent of instructor.

GEOL 746 - Strain and Microstructural Analysis Credits 4
Examination of the principles and techniques of finite and incremental strain analysis and their application to naturally deformed rocks. Investigation of plastic deformation processes and deformation mechanisms, and recognition and interpretation of microstructures developed during deformation. Notes: Three hours lecture, three hours laboratory. Prerequisites: GEOL 341 or consent of instructor.

GEOL 747 - Geological Evolution of Western North America Credits 3
Study of the geological evolution of western North America. Emphasis on the stratigraphic, structural, and tectonic development of the continent within the framework of plate tectonics. Notes: Three hours lecture per week. Prerequisites: GEOL 223, GEOL 341, GEOL 462.

GEOL 749 - Advanced Geochronology and Thermochronology Credits 3
Detailed discussion of isotopic dating of rocks with application to geologic problems. Diffusion theory and reconstruction of thermal histories of rocks. Includes surface exposure dating using cosmogenic isotopes, study of uranium series disequilibrium, luminescence, electron spin resonance, and 14C dating. Prerequisites: GEOL 426

GEOL 755 - Seminar in Paleontology Credits 3
Special topics of current interest in paleontology, with emphasis on Great Basin fossil faunas. Prerequisites: Graduate standing in geology or biology or consent of instructor.

GEOL 762 - Geological Applications of Computers Credits 3
Use of computer algorithms to solve geological problems, geostatistics, modeling of geological processes. Prerequisites: Graduate standing and CS 116 and 169.

GEOL 766 - Earth Systems Change Credits 3
Investigate long-term and short-term global climate changes, ocean redox evolution, and their impacts on biospheric innovations. Explore interactions between Earth's sub spheres (lithosphere, hydrosphere, atmosphere, and biosphere) during times of extreme environmental changes in Earth history and testing methods and techniques for such interactions. Prerequisites: Graduate standing or consent of instructor.

GEOL 770 - Sedimentary Basins Credits 3
Analysis of current ideas concerning the plate tectonic setting and evolution of sedimentary basins. Emphasis on characteristic styles of basin sedimentation and resulting stratigraphic framework, provenance of basin fill, chronologic relationship of tectonic events and sedimentation, and methods of basin analysis. Prerequisites: Graduate standing or consent of instructor.

GEOL 772L - Reflection Seismic Data Interpretation Laboratory Credits 0
Lab course designed to supplement the lecture course. Interpretations of several structural regimes, structure contour maps, correlation using well logs, creation of synthetics, and the interpretation of a 3-D seismic data set. Prerequisites: Graduate standing or consent of instructor.

GEOL 777 - Instrumental Techniques in Geology Credits 3
Use of modern instrumentation to acquire geological and geochemical data. Includes, but not limited to, the practical application of x-ray diffraction and fluorescence and atomic absorption spectrophotometry. Notes: Six hours laboratory. Prerequisites: Graduate standing or consent of instructor.

GEOL 781 - Carbonate Depositional Systems Credits 3
Examination of modern non-marine and marine depositional environments dominated by carbonate sediments, organisms that produce sediments, processes that operate in these settings, and responses of sediment to the processes. Establish criteria for recognizing these environments and processes in ancient carbonate sequences. Prerequisites: Graduate standing and GEOL 462 or consent of instructor.

GEOL 785 - Seminar in Sedimentology Credits 1 – 4
Analysis of current problems, concepts, and research in sedimentary geology and related fields. Emphasis may be upon the genesis and diagenesis of specific sedimentary sequences or upon particular depositional or diagenetic environments. Prerequisites: Graduate standing and either GEOL 780 or GEOL 781, or consent of instructor.
GEOL 786 - Soils Applications: Paleoclimate, Neotectonics, Archeology Credits 3
Special topics of current interest in soil science with emphasis on the use of soils for applications in geomorphology, paleoclimate, neotectonics, and/or archeology. Prerequisites: Graduate standing in geology, biology, anthropology, or consent of instructor.

GEOL 787 - Thesis Research Credits 1 – 6
Supervised research prior to approval of master’s program prospectus. Notes: May be repeated to a maximum of six credits, but only one credit can be applied to the student’s program. Grading: S/F grading only. Prerequisites: Enrollment in the M.S. Program.

GEOL 789 - Dissertation Research Credits 1 – 6
Supervised research prior to advancement to candidacy in the doctoral program. Notes: May be repeated, but only two credits can be applied to the student’s program. Grading: S/F grading only. Prerequisites: Enrollment in the doctoral program.

GEOL 792 - Seminar in Hydroscience Credits 1 – 3
Specialized topics in hydroscience.

GEOL 793 - Independent Study and Research Credits 1 – 3
Independent study and research projects in some field of geology. Proposed project for study must be submitted in writing to the graduate program coordinator and the department chair for approval and credit evaluation at least two weeks prior to registration. Notes: May be repeated for credit, but only three credits are permitted per instructor unless special permission is received. Prerequisites: Consent of instructor.

GEOL 794 - Directed Readings Credits 1 – 3
Supervised readings on special topics in consultation with a geoscience graduate faculty member. Notes: May be repeated to a maximum of six credits. Requires consent of student’s academic adviser. Grading: S/F grading only. Prerequisites: Admission to Geoscience Ph.D. program; Consent of instructor.

GEOL 795 - Poster Presentation and Time Management Credits 1
Presentation of geological information in poster format and time management skills. Poster presentation includes layout and design, focus, data versus interpretation, computer graphics, verbal presentation and referencing. Time management issues include scheduling, planning, organization, and productivity. Notes: Should be taken during first or second semester of graduate program. Prerequisites: Graduate standing in Geoscience.

GEOL 796 - Advanced Topics in Geoscience Credits 1 – 3
Variety of advanced studies of current and/or topical interest in specialized areas of geoscience. Notes: May be repeated to a maximum of six credits. Prerequisites: Varies, depending upon the specific topic.

GEOL 797 - Thesis Credits 1 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated, but only six credits applied to the student’s program. Grading: S/F grading only. Prerequisites: Graduate standing and consent of instructor.

GEOL 799 - Dissertation Credits 3 – 6
Research analysis and writing toward completion of dissertation and subsequent defense. Notes: Twelve credits are required for the degree, may be repeated, but only twelve credits will be applied to the student’s degree program. May be repeated but only a maximum of 12 credits may be used in students degree program Grading: S/F grade. Prerequisites: Successful completion of qualifying examination and approval by department.

School of Life Sciences
The School of Life Sciences (SoLS) offers graduate programs leading to the master of science (M.S.) and doctor of philosophy (Ph.D.) degrees. Each degree requires a research thesis (M.S.) or dissertation (Ph.D.). Research leading to the M.S. and Ph.D. degrees may be conducted in one or more of the following fields: cellular and molecular biology; genetics; microbiology; bioinformatics; physiology; population, community, and ecosystem ecology; dryland ecohydrology; evolutionary biology; systematics; and biogeography. The school has well-equipped laboratories to support faculty and graduate student research. These facilities are enhanced through access to a number of specialized scientific resources, including the UNLV Genomics, Core Facility, the UNLV Confocal and Biological Imaging Core, an AAALAC-accredited animal care facility, and the Wesley E. Niles Herbarium. Investigators from the Nevada System of Higher Education’s Desert Research Institute also participate in our graduate program. Numerous funding opportunities are available through state-funded graduate assistant programs via statewide initiatives or in association with individual faculty research programs. Prospective students should make contact with one or more faculty members to familiarize themselves with their current research interests, opportunities for conducting research projects, and funding availability. A list of faculty research interests and admission materials are available online at the school’s web site.

Frank van Breukelen, Ph.D., Director
Helen Wing, Ph.D., Graduate Coordinator

Life Sciences Faculty
Director
Van Breukelen, Frank - Full Graduate Faculty Professor; Ph.D., University of Colorado, Boulder. Rebel since 2002.

Graduate Coordinator
Wing, Helen J. - Full Graduate Faculty Professor; Ph.D., University of Birmingham, Edgbaston, United Kingdom. Rebel since 2005.

Graduate Faculty
Abella, Scott R. - Full Graduate Faculty Assistant Professor; Ph.D., Northern Arizona University, Flagstaff. Rebel since 2015.

Andres, Andrew J. - Full Graduate Faculty Associate Professor; Ph.D., Indiana University, Bloomington. Rebel since 2002.

Bazylinski, Dennis A. - Full Graduate Faculty Professor; Ph.D., University of New Hampshire, Durham. Rebel since 2006.

Caberoy, Nora B. - Full Graduate Faculty Associate Professor; Ph.D., Washington State University, Pullman. Rebel since 2012.

Devitt, Dale A. - Full Graduate Faculty Professor; Ph.D., University of California, Riverside. Rebel since 2005.

Gibbs, Allen G. - Full Graduate Faculty Professor; Ph.D., University of California, San Diego. Rebel since 2005.

Han, Mira V. - Full Graduate Faculty Assistant Professor, Ph.D., Indiana University, Bloomington. Rebel since 2013

Hedlund, Brian P. - Full Graduate Faculty Professor; Ph.D., University of Washington, Seattle. Rebel since 2003.

Hindle, Allyson G. - Full Graduate Faculty Assistant Professor; Ph.D., Texas A&M University. Rebel since 2019.

Lee, David V. - Full Graduate Faculty Associate Professor; Ph.D., University of Utah, Salt Lake City. Rebel since 2007.
Doctor of Philosophy - Biological Sciences

Plan Description

The School of Life Sciences (SoLS) offers a Ph.D. program in Cell and Molecular Biology, Ecology and Evolutionary Biology, Integrative Physiology, Microbiology and Quantitative Biology and Bioinformatics. This degree is research intensive and is designed to prepare students for careers in academia, government, or industry. Students complete a minimum of 60 credit hours from a list of core and approved courses within their section. In addition, students are typically a Teaching Assistant (TA) for at least one semester. It is expected that students will first-author at least one peer-reviewed journal article.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applications for fall admission that are completed by the posted deadline will be given priority for state-funded graduate assistantships. Admission is based on a combination of criteria that may differ from one year to another, however, most successful applicants have a minimum of a 3.0 undergraduate grade point average (junior and senior years) and score in the upper 50th percentile on all sections of the GRE. Students interested in enrolling in the Quantitative Biology and Bioinformatics Track (Subplan 5) must have taken two semester-long biology classes prior to admission. Decisions for fall applicants will be made by April 1 if not sooner.

Applications are not considered complete unless they contain:

1. A completed SoLS application form.
2. A completed Graduate College Application with Official transcripts and three Letters of Recommendation.
3. Official GRE score report; subject GREs are not required.
4. A two-page personal statement describing why the applicant wishes to obtain a Ph.D. in biological sciences.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

See Subplan Requirements below.

Subplan 1: Post-Bachelor’s – Cellular and Molecular Biology Track
Subplan 2: Post-Bachelor’s – Ecology and Evolutionary Biology Track
Subplan 3: Post-Bachelor’s – Integrative Physiology Track
Subplan 4: Post-Bachelor’s – Microbiology Track
Subplan 5: Post-Bachelor’s – Quantitative Biology and Bioinformatics Track
Subplan 6: Post-Master’s Track

Subplan 1 Requirements: Post-Bachelor’s - Cellular and Molecular Biology Track
Total Credits Required: 60

Course Requirements

Core Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Required Courses – Credits: 9
Complete 9 credits from the following list of courses:
• BIOL 607 - Molecular Biology
• BIOL 625 - Genomics
• BIOL 645 - Cell Physiology
• CHEM 772 - Nucleic Acid Chemistry

Didactic Courses – Credits: 9
Complete 9 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 6
Complete 6 credits from the following course:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
• BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
• BIOL 793D - Advanced Topics in Life Sciences: Microbiology
• BIOL 796 - Graduate Seminar

Elective Courses – Credits: 23
Complete 23 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Dissertation – Credits: 12
• BIOL 799 - Dissertation

Degree Requirements

1. Complete a minimum of 60 credit hours beyond the undergraduate degree. At least 24 of these hours (excluding dissertation) must be completed at the 700-level.
2. Dissertation credits may be repeated for credit as needed, but only 12 credits may be counted towards the 60 credit hour minimum graduation requirement.
3. Students must complete the specific didactic course work required. See SoLS’s Graduate Student Handbook http://sols.unlv.edu/current.html for specific requirements.
4. Students working on their dissertation must register for at least 3 credits each semester (excluding summer) until the Dissertation is completed and given final approval.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Bachelor’s - Ecology and Evolutionary Biology Track
Total Credits Required: 60

Course Requirements

Core Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Didactic Courses – Credits: 18
Complete 18 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 6
Complete 6 credits from any combination of the following courses:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
• BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
• BIOL 793D - Advanced Topics in Life Sciences: Microbiology
• BIOL 796 - Graduate Seminar

Elective Courses – Credits: 23
Complete 23 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Dissertation – Credits: 12
• BIOL 799 - Dissertation
Degree Requirements

1. Complete a minimum of 60 credit hours beyond the undergraduate degree. At least 24 of these hours (excluding dissertation) must be completed at the 700-level.
2. Dissertation credits may be repeated for credit as needed, but only 12 credits may be counted towards the 60 credit hour minimum graduation requirement.
3. Students must complete the specific didactic course work required. See SoLS’s Graduate Student Handbook http://sols.unlv.edu/current.html for specific requirements.
4. Students working on their dissertation must register for at least 3 credits each semester (excluding summer) until the Dissertation is completed and given final approval.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s - Integrative Physiology Track
Total Credits Required: 60

Course Requirements

Core Course – Credits: 1
- BIOL 701 - Ethics in Scientific Research

Didactic Courses – Credits: 18
Complete 18 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 6
Complete 6 credits from the following course:
- BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
- BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
- BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
- BIOL 793D - Advanced Topics in Life Sciences: Microbiology
- BIOL 796 - Graduate Seminar

Elective Courses – Credits: 23
Complete 22 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Dissertation – Credits: 12
- BIOL 799 - Dissertation

Degree Requirements

1. Complete a minimum of 60 credit hours beyond the undergraduate degree. At least 24 of these hours (excluding dissertation) must be completed at the 700-level.
2. Dissertation credits may be repeated for credit as needed, but only 12 credits may be counted towards the 60 credit hour minimum graduation requirement.
3. Students must complete the specific didactic course work required. See SoLS’s Graduate Student Handbook http://sols.unlv.edu/current.html for specific requirements.
4. Students working on their dissertation must register for at least 3 credits each semester (excluding summer) until the Dissertation is completed and given final approval.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 4 Requirements: Post-Bachelor’s - Microbiology Track
Total Credits Required: 60

Course Requirements

Core Course – Credits: 1
- BIOL 701 - Ethics in Scientific Research

Required Courses – Credits: 3
Complete 3 credits from the following list of courses:
- BIOL 609 - Virology
- BIOL 618 - Microbial Ecology
- BIOL 653 - Immunology
- BIOL 664 - Bacterial Pathogenesis
- BIOL 660 - Microbial Physiology
- BIOL 685 - Microbial Genetics

Didactic Courses – Credits: 15
Complete 15 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 6
Complete 6 credits from any combination of the following courses:
- BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
- BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
- BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
- BIOL 793D - Advanced Topics in Life Sciences: Microbiology
Elective Courses – Credits: 23
Complete 22 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Dissertation – Credits: 12
• BIOL 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the undergraduate degree. At least 24 of these hours (excluding dissertation) must be completed at the 700-level.

2. Dissertation credits may be repeated for credit as needed, but only 12 credits may be counted towards the 60 credit hour minimum graduation requirement.

3. Students must complete the specific didactic course work required. See SoLS’s Graduate Student Handbook http://sols.unlv.edu/current.html for specific requirements.

4. Students working on their dissertation must register for at least 3 credits each semester (excluding summer) until the Dissertation is completed and given final approval.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Post Bachelor’s - Quantitative Biology and Bioinformatics Track
Total Credits Required: 60

Course requirements
Core Course - Credits: 1
• BIOL 701 - Ethics in Scientific Research

Required Courses - Credits: 6
Complete 6 credits from the following list of courses:
• BIOL 611 - Molecular Evolution
• BIOL 616 - Bioinformatics
• BIOL 625 - Genomics
• BIOL 628 - Biometry
• BIOL 680 - Introduction to Biological Modeling
• BIOL 714 - Population Genetics

Didactic courses - Credits: 12
Complete 12 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 6
Complete 6 credits from the following course:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
• BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
• BIOL 793D - Advanced Topics in Life Sciences: Microbiology
• BIOL 796 - Graduate Seminar

Elective Courses – Credits: 23
Complete 23 credits of advisor-approved independent study, colloquium, seminar, core, or didactic courses.

Dissertation – Credits: 12
• BIOL 799 - Dissertation

Degree Requirements
1. Complete a minimum of 60 credit hours beyond the undergraduate degree. At least 24 of these hours (excluding dissertation) must be completed at the 700-level.

2. Dissertation credits may be repeated for credit as needed, but only 12 credits may be counted towards the 60 credit hour minimum graduation requirement.

3. Students must complete the specific didactic course work required. See SoLS’s Graduate Student Handbook http://sols.unlv.edu/current.html for specific requirements.

4. Students working on their dissertation must register for at least 3 credits each semester (excluding summer) until the Dissertation is completed and given final approval.

Graduation requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Post-Master’s Track
Total Credits Required: 30

Course Requirements
Core Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Seminar Courses – Credits: 6
Complete 6 credits from the following courses:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
Master of Science - Biological Sciences

Plan Description

The School of Life Sciences offers an M.S. program with concentrations in Cell and Molecular Biology, Evolutionary Biology, Integrative Physiology, Microbiology, and Quantitative Biology and Bioinformatics. This degree is less research-intensive than the Ph.D. and is designed to prepare students for a diverse set of science-related careers.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applications for fall admission that are completed by the posted deadline will be given priority for state-funded graduate assistantships. Admission is based on a combination of criteria that may differ from one year to another, however, most successful applicants have a minimum of a 3.0 undergraduate grade point average (junior and senior years) and score in the upper 50th percentile on all sections of the GRE. Decisions for fall applicants will be made by April 1 if not sooner.

Please note that the M.S. and Ph.D. degrees from the School of Life Sciences (SoLS) are research degrees. Applicants must look through the faculty web pages to identify one or more potential mentors as part of their application. They are required to contact these faculty directly regarding the possibility of joining their lab.

Applications are not considered complete unless they contain:

1. A completed SoLS application form.
2. A completed Graduate College Application with Official transcripts and two Letters of Recommendation.
3. Official GRE score report; subject GREs are not required.
4. A two-page personal statement describing why the applicant wishes to obtain the MS degree.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

See Subplan Requirements below.

Subplan 1: Cellular and Molecular Biology Track
Subplan 2: Ecology and Evolutionary Biology Track
Subplan 3: Integrative Physiology Track
Subplan 4: Microbiology Track
Subplan 5: Quantitative Biology and Bioinformatics

Subplan 1 Requirements: Cellular and Molecular Biology Track
Total Credits Required: 30

Course Requirements

Required Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Core Courses – Credits: 6
Complete 6 credits from the following list of courses:
• BIOL 607 - Molecular Biology
• BIOL 625 - Genomics
• BIOL 645 - Cell Physiology
• CHEM 772 - Nucleic Acid Chemistry

Didactic Course – Credits: 3
Complete 3 credits of an advisor-approved didactic course.

Seminar Courses – Credits: 4
Complete 4 credits from any combination of the following courses:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
• BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
• BIOL 793D - Advanced Topics in Life Sciences: Microbiology
• BIOL 796 - Graduate Seminar

Elective Courses – Credits: 10
Complete 10 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Thesis – Credits: 6
• BIOL 797 - Thesis

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Ecology and Evolutionary Biology Track
Total Credits Required: 30

Course Requirements

Required Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Didactic Courses – Credits: 9
Complete 9 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 4
Complete 4 credits from any combination of the following courses:
• BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
• BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
• BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
• BIOL 793D - Advanced Topics in Life Sciences: Microbiology
• BIOL 796 - Graduate Seminar

Elective Courses – Credits: 10
Complete 10 credits advisor-approved independent study, colloquium, seminar, or didactic courses.

Thesis – Credits: 6
• BIOL 797 - Thesis

Degree Requirements

See Plan Degree Requirements below.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 3 Requirements: Integrative Physiology Track
Total Credits Required: 30

Course Requirements

Required Course – Credits: 1
• BIOL 701 - Ethics in Scientific Research

Didactic Courses – Credits: 12
Complete 12 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 4
Complete 4 credits from any combination of the following courses:

- BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
- BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
- BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
- BIOL 793D - Advanced Topics in Life Sciences: Microbiology
- BIOL 796 - Graduate Seminar

Elective Courses – Credits: 7
Complete 7 credits of advisor-approved independent study, colloquium, seminar, or didactic courses.

Thesis – Credits: 6
- BIOL 797 - Thesis

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Microbiology Track
Total Credits Required: 30

Course Requirements

Required Course – Credits: 1
- BIOL 701 - Ethics in Scientific Research

Core Courses – Credits: 3
Complete one of the following courses:
- BIOL 609 - Virology
- BIOL 618 - Microbial Ecology
- BIOL 653 - Immunology
- BIOL 660 - Microbial Physiology
- BIOL 664 - Bacterial Pathogenesis
- BIOL 685 - Microbial Genetics

Didactic Courses – Credits: 6
Complete 6 credits of advisor-approved didactic courses.

Seminar Courses – Credits: 4
Complete 4 credits from any combination of the following courses:
- BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution
- BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology
- BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology
- BIOL 793D - Advanced Topics in Life Sciences: Microbiology
Elective Courses – Credits: 10
Complete 10 credits of independent study, colloquium, seminar, core, or didactic courses

Thesis – Credits: 6
• BIOL 797 - Thesis

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements

1. Complete a minimum of 30 credit hours beyond the undergraduate degree. At least 18 of these hours must be completed at the 700-level.

2. Students may request a maximum of 15 graduate credits taken at UNLV prior to admission into SoLS’s Graduate Program to be counted towards the 30 credit hour minimum graduation requirement, provided that those credits were not used to fulfill undergraduate requirements and that a minimum grade of “B” (3.00) was earned in each course.

3. At least 50 percent of the total credits required to complete the master’s degree must be earned at UNLV after admission into the Graduate Program.

4. Students should register for at least nine (9) credits each semester if they are receiving financial support from SoLS; otherwise they must register for at least six (6) credits each semester.

5. Students working on their thesis must register for at least three (3) credits each semester (excluding summer) until the Master’s Thesis is completed and given final approval.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

BIOL 603 - Restoration Ecology Credits 3
The science and practice of repairing ecosystems that have been damaged or destroyed; including determining reference conditions, restoration practices across biomes, and challenges to restoration during an era of global change in climate, disturbance, and biological invasions. Notes: This course is crosslisted with BIOL 403. Credit at the 600-level requires additional work. Prerequisites: Consent of instructor.

BIOL 604 - Principles of Neurobiology Credits 3
Notes: This course is crosslisted with BIOL 404. Credit at the 600 level requires additional work.

BIOL 607 - Molecular Biology Credits 3
Introductory molecular biology. Study of genes and their activities at the molecular level, including transcription, translation, DNA replication, and recombination. Concepts of molecular biology presented along with experimental strategies and data the led to those concepts. Notes: This course is crosslisted with BIOL 405. Credit at the 600 level requires additional work.

BIOL 609 - Virology
Systematic examination of animal, plant, and bacterial viruses including their structure and genome organization, their reproduction and assembly, and their effects on host organisms. Notes: This course is crosslisted with BIOL 409. Credit at the 600-level requires additional work.

BIOL 611 - Molecular Evolution Credits 3
Molecular evolution of genes and genomes. Determination of the universal tree of life by inferring molecular phylogenies of genes and proteins. Emphasis on evolution by duplication, recombination, and transposition. Notes: This course is crosslisted with BIOL 412. Coursework at the 600-level normally requires additional work.

BIOL 613 - Introduction to Scientific Writing Credits 2
Scientific writing for those intending to publish manuscripts, technical reports, or academic papers in the sciences. Writing techniques, published literature, and student writing examples are presented and evaluated. Students will improve their writing skills and learn to critique published writing samples. This course is crosslisted with BIOL 413. Credit at the 600-level requires additional work.

BIOL 616 - Bioinformatics Credits 3
This class covers basic principles in bioinformatics, as well as Perl programming, algorithms, databases, and use of many bioinformatics resources. In class “laboratory” exercises reinforce these topics with hands-on activities and individual/group learning exercises. The class emphasizes a conceptual and practical understanding of bioinformatics applied to biological systems at the molecular, cellular, and organismal level. Prerequisites: Consent of instructor.

BIOL 617 - Biochemical Adaptations Credits 3
Exploration of biochemical and molecular characteristics that appear to be adaptive for organisms in their respective environments. Grading: Letter grade Prerequisites: Consent of instructor

BIOL 618 - Microbial Ecology
Study of microbes as individuals, populations, and communities in freshwater, marine, and terrestrial environments. Topics such as nutrient cycling, biodegradation, and biotechnology discussed from an ecological standpoint. Notes: This course is crosslisted with BIOL 418. Credit at the 600-level requires additional work.

BIOL 622 - Taxonomy of Vascular Plants
Study of the evolutionary relationships of the principal orders, families and genera; systems of classification; collection and identification of local flora. Notes: This course is crosslisted with BIOL 422. Credit at the 600-level requires additional work.
BIOL 625 - Genomics
Study of the sequencing, assembling and annotating of genomes. Examination of new approaches that integrate genetics, molecular biology, and computer sciences to answer biological questions in novel ways. Applications of genomics, proteomic and bioinformatic technologies in medical researches. Notes: This course is crosslisted with BIOL 425. Credit at the 600-level requires additional work.

BIOL 626 - Plant Anatomy
Study of the basic structure of plant organs and tissues, particularly with regard to relationships between structure and function. Notes: This course is crosslisted with BIOL 426. Credit at the 600-level requires additional work.

BIOL 628 - Biometry Credits 3
Analysis of large data sets, statistical hypothesis testing, and experimental design. Examples drawn from molecular biology (e.g. microarrays, RNA-Seq), ecology, systems biology, and population genetics. Introduction to programming in the R programming language. Notes: This course is crosslisted with BIOL 428. Coursework at the graduate level requires additional work. Prerequisites: Consent of instructor.

BIOL 631 - Ichthyology
Study of biology of fishes, including morphology, physiology, ecology, and evolution. Emphasis on local fish, field work with state and federal agency biologists. Notes: This course is crosslisted with BIOL 431. Credit at the 600-level requires additional work.

BIOL 632 - Herpetology
Introduction to various aspects of the ecology, behavior, and evolution of recent amphibians and non-avian reptiles. In the laboratory students will learn diagnostic characteristics, some functional attributes, and aspects of the natural history of recent amphibians and non-avian reptiles, particularly of species from southwestern North America. Notes: This course is crosslisted with BIOL 432. Credit at the 600-level requires additional work.

BIOL 633 - Ornithology
Principles of avian biology and evolution. Notes: This course is crosslisted with BIOL 433. Credit at the 600-level requires additional work.

BIOL 634 - Mammalogy Credits 4
Study of mammalian biology, evolution, and ecology, with attention to issues in mammal conservation biology. Three hours lecture and three hours laboratory with possible weekend and overnight field trips. Notes: This course is crosslisted with BIOL 434. Credit at the 600 level requires additional work.

BIOL 635 - Forest Ecology Credits 3
Principles of the ecology and conservation of forest ecosystems; tree species traits, forest development, and disturbance effects on forests; evolutionary processes in forest change; animal and microorganism use of forest habitats and influences on forests; effects of fire, forest pests, and global change on forest ecology and biodiversity. Notes: This course is crosslisted with BIOL 435. Credit at the 600 level requires additional work. Prerequisites: Undergraduate degree in biology.

BIOL 641 - Field Ecology
Introduction to ecological research. Weekly field projects emphasize population biology, interactions among species, and ecosystem processes. Notes: This course is crosslisted with BIOL 441. Credit at the 600-level requires additional work.

BIOL 642 - Principles of Plant Physiology Credits 4
Introduction to the basic physiological processes in plants: metabolism, nutrition, growth, and development. Notes: This course is crosslisted with BIOL 442. Credit at the 600 level requires additional work.

BIOL 643 - Molecular Biotechnology Credits 3
Examines techniques in DNA technology. Explains scientific basis, describes their applications in industry, and considers their potential for use or misuse in the future. Grading: This course is crosslisted with BIOL 434. Coursework at the 600-level requires additional work.

BIOL 644 - Principles of Plant Ecology Credits 3
Introduction to the ecology of wild plants, particularly structure, ecology of populations, interactions of plants with their environment and other organisms, and survey of the major global vegetation types. Notes: This course is crosslisted with BIOL 444. Credit at the 600 level requires additional work.

BIOL 645 - Cell Physiology Credits 3
Cell physiology provides an understanding of the basic processes of eukaryotic cells and their relationship to cellular ultrastructure. Notes: This course is crosslisted with BIOL 445. Credit at the 600 level requires additional work. Prerequisites: Consent of instructor.

BIOL 647 - Comparative Animal Physiology Credits 3
Comparative physiology provides a detailed understanding of the diverse array of physiological systems evolved to allow animals to function in various environments. The comparative approach is used to understand physiological adaptations to various environments and the evolution of physiological systems. Notes: This course is crosslisted with BIOL 447. Credit at the 600 level requires additional work. Grading: Letter Grade

BIOL 651 - Comparative Vertebrate Anatomy Laboratory Credits 2
The companion laboratory course of BIOL 655. Hands-on dissection of specimens representing major vertebrate groups. Numerous demonstration specimens sample the diversity of fishes, amphibians, and amniotes. Review of fossil vertebrates with emphasis on phylogenetic relationships. Notes: This course is crosslisted with BIOL 451. Credit at the 600-level requires additional work. Prerequisites: Biology degree or consent of instructor. Corequisite BIOL 655

BIOL 653 - Immunology Credits 3
Study of the immune response, cell-mediated and humoral. Topics include the diversity of antibodies and antigen receptors, evolution of immunity, cell-cell interactions, importance of major histocompatibility complex immune regulation, and immunity to microorganisms. Notes: This course is crosslisted with BIOL 453. Credit at the 600-level requires additional work.

BIOL 655 - Vertebrate Embryology Credits 3
A survey of research literature in regeneration biology and stem cells across the organismal, tissue, and molecular levels. Our focus is on understanding tissue regeneration through model organism studies (invertebrates and vertebrates). Topics include stem cells, wound healing, organogenesis, and age dependent-regeneration, with discussions of applicability towards promoting human regenerative repair.

BIOL 658 - Stem Cells and Regeneration Biology Credits 3
Addresses the molecular mechanisms by which bacterial pathogens cause disease. Basic principles of bacterial pathogenesis will be considered before a survey of bacterial pathogens and their specific virulence factors is conducted. Includes aspects of bacterial genetics, physiology, immunology, and the cell biology of host-parasite interactions. Notes: This course is crosslisted with BIOL 458. Credit at the 600 level requires additional work. Prerequisites: BIOL 351 or equivalent microbiology class.

BIOL 660 - Microbial Physiology Credits 3
Development of vertebrates, with emphasis on amphibians, birds, and mammals. Considerations of gametogenesis, fertilization, cleavage, early morphogenesis, and organogenesis included. Notes: This course is crosslisted with BIOL 465. Credit at the 600-level requires additional work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 669</td>
<td>RNA Biology</td>
<td>3</td>
<td>Comprehensive survey designed to cover multiple types and biological roles of RNA. Specific topics include role of RNAs in the regulation of important cellular and physiological processes, and how alteration of RNA functions could lead to human genetic diseases as well as RNA-based therapies. Notes: This course is crosslisted with BIOL 469. Coursework at the 600-level requires additional work.</td>
</tr>
<tr>
<td>BIOL 670</td>
<td>Topics in Applied Microbiology</td>
<td>3</td>
<td>Applications may include bioremediation, food, agriculture, pharmaceuticals, vaccine development, water treatment, or genetic engineering. Presentation and discussion of current literature. Topics published in the class schedule. Maximum of two different topics may be selected for a total of six credits. Notes: This course is crosslisted with BIOL 470. Credit at the 600 level requires additional work.</td>
</tr>
<tr>
<td>BIOL 678</td>
<td>Genetics and Cell Biology of Cancer</td>
<td>3</td>
<td>An exploration of the genetic controls that go awry during carcinogenesis, tumorigenesis, and metastasis leading to cancer. A mixture of formal lectures, student presentations, and class discussions are employed. Course is crosslisted with BIOL 478. Credit at the 600-level requires additional work. Notes: Course is crosslisted with BIOL 478. Credit at the 600-level requires additional work. Prerequisites: Permission of instructor.</td>
</tr>
<tr>
<td>BIOL 680</td>
<td>Introduction to Biological Modeling</td>
<td>3</td>
<td>Introduction to the modeling of biological systems and processes through the use of computers. Notes: This course is crosslisted with BIOL 480. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>BIOL 685</td>
<td>Microbial Genetics</td>
<td>4</td>
<td>Examines genetics of prokaryotic microorganisms, including induction of mutations and selection of mutants, alternative processes of genetic exchange and gene mapping, and gene organization and regulation. Notes: This course is crosslisted with BIOL 485. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>BIOL 690</td>
<td>Biogeography</td>
<td>3</td>
<td>Study of distributional patterns of plant and animal groups, including consideration of theories and principles, derived from a variety of disciplines, related to those patterns. Notes: This course is crosslisted with BIOL 490. Credit at the 600 level requires additional work.</td>
</tr>
<tr>
<td>BIOL 701</td>
<td>Ethics in Scientific Research</td>
<td>1 - 2</td>
<td>Examination of ethical issues in scientific research, including research design, planning, and support; data manipulation and accessibility; publication practices and authorship; peer review; and scientific misconduct. Grading: Letter grade Prerequisites: Graduate standing or consent of instructor</td>
</tr>
<tr>
<td>BIOL 702</td>
<td>Biology Graduate Core</td>
<td>3</td>
<td>Preparation for independent research and careers in the biological sciences. Fundamentals of research design and the development of professional skills needed for success in a range of careers. Notes: Anti-requisite: Any analogous core graduate course completed at another institution by incoming M.S.-holding students.</td>
</tr>
<tr>
<td>BIOL 703</td>
<td>Biochemical Genetics</td>
<td>3</td>
<td>Detailed study of the structure of nucleic acids and the molecular genetic mechanisms of replication, transcription, and induction and repression of genetic information. Biochemical genetics of gene transfer. Prerequisites: BIO 300 and CHEM 471.</td>
</tr>
<tr>
<td>BIOL 714</td>
<td>Population Genetics</td>
<td>3</td>
<td>Examines the interactions of evolutionary processes, such as natural selection, genetic drift, gene flow, and mutation, and effects of these interactions on population differentiation, speciation, and extinction. Theoretical and empirical approaches to the study of DNA substitutions and quantitative genetic change are addressed. Prerequisites: MATH 181 and BIO 310 or consent of instructor.</td>
</tr>
<tr>
<td>BIOL 730A-D</td>
<td>Special Lectures in Life Sciences</td>
<td>3</td>
<td>Reserved for formal didactic classes with varying special current topics in different disciplines of life sciences. Lettering system reflects focus on topics specific for each Section within Life Sciences (A = Ecology and Evolution, B = Organismal Physiology, C = Cell and Molecular Biology, D = Microbiology). Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of instructor.</td>
</tr>
</tbody>
</table>
BIOL 791 - Research Laboratory Discussions in Life Sciences Credits 1-2
Students present their research and discuss the work of colleagues during formal laboratory meetings with their mentor’s research group. Notes: May be repeated to a maximum of nine credits. Grading: Letter grade Prerequisites: Consent of instructor.

BIOL 792 - Advanced Topics in Cell and Molecular Biology Credits 1 – 3
Includes papers, oral presentations and discussion of current literature in these fields. Notes: Topics announced with each offering. May be repeated to a maximum of twelve credits. Prerequisites: Graduate standing and consent of instructor.

BIOL 793A - Advanced Topics in Life Sciences: Ecology and Evolution Credits 1 - 2
A seminar-style class where presentations are organized around a common theme. Students present and discuss the related primary literature. Notes: May be repeated to a maximum of six credits.

BIOL 793B - Advanced Topics in Life Sciences: Organismal Physiology Credits 1 - 2
A seminar-style class where presentations are organized around a common theme. Students present and discuss the related primary literature. Notes: May be repeated to a maximum of six credits.

BIOL 793C - Advanced Topics in Life Sciences: Cell and Molecular Biology Credits 1 - 2
A seminar-style class where presentations are organized around a common theme. Students present and discuss the related primary literature. Notes: May be repeated to a maximum of six credits.

BIOL 793D - Advanced Topics in Life Sciences: Microbiology Credits 1-2
A seminar-style class where presentations are organized around a common theme. Students present and discuss the related primary literature. Notes: May be repeated to a maximum of six credits.

BIOL 794 - Techniques in Molecular Biology Credits 3
Introduction to the theory and laboratory methods used in molecular biology research. Topics include the isolation and purification of nucleic acids, restriction digests, cloning, Southern blotting, PCR, DNA sequencing, and electrophoresis. Notes: Three to nine laboratory hours per week. Prerequisites: Consent of instructor.

BIOL 796 - Graduate Seminar Credits 1 – 2
Instructs students on how to prepare and present seminars on topics of current interest in life sciences. Lettering system reflects focus on topics specific for each Section within Life Sciences (A = Ecology and Evolution, B = Organismal Physiology, C = Cell and Molecular Biology, D = Microbiology). Notes: May be repeated to a maximum of nine credits. Grading: Letter grade Prerequisites: Graduate standing in biology.

BIOL 797 - Thesis Credits 3 – 6
Notes: May be repeated but only six credits applied to the student’s program. Enrollment by consent of instructor only. Grading: S/F grading only.

BIOL 799 - Dissertation Credits 3 – 6
Research analysis and writing toward completion of dissertation and subsequent defense. Notes: May be repeated but a maximum of only 18 credits may be applied to the degree program. Grading: S/F grading only. Prerequisites: Graduate standing in the Biology Ph.D. program and consent of instructor.

Mathematical Sciences

The Department of Mathematical Sciences offers both the master of science and doctor of philosophy degrees. The M.S. program has areas of concentration in pure mathematics, applied mathematics, applied statistics, and teaching mathematics. The Ph.D. program has areas of concentration in applied mathematics, computational mathematics, pure mathematics, and statistics. Specific disciplines include approximation theory, applied complex analysis, bioinformatics, biostatistics, calculus of variations, combinatorics, control theory, finite fields, graph theory, mathematical education, mathematical modeling, number theory, numerical analysis, partial differential equations, scientific computing, set theory, and statistics. Excellent computing facilities are available for classroom studies and research. The Department of Mathematical Sciences, through an active faculty, offers graduate students both an unusual amount of personal attention and a lively research atmosphere. The degree programs are designed to provide students with a strong theoretical background in graduate-level mathematics. Our graduates have been successful in finding employment in industry, government and education.

Zhijian Wu, Ph.D., Chair
Jichun Li, Ph.D., Graduate Coordinator

Mathematical Sciences Faculty

Chair
Wu, Zhijian- Full Graduate Faculty Professor; B.S., China University of Geosciences; M.S., Peking University; Ph.D., Washington University. Rebel since 2015.

Graduate Coordinator
Li, Jichun - Full Graduate Faculty Professor; B.S., M.S., Nanjing University; Ph.D., Florida State University. Rebel since 2000.

Graduate Faculty
Amel, Amei - Full Graduate Faculty Associate Professor; B.S., Inner Mongolia University; M.S., University of Science and Technology of China; Ph.D., Washington University. Rebel since 2007.

Ananda, Malwane M.A. - Full Graduate Faculty Professor; B.S., University of Sri Jayewardenepura; M.S., Ph.D., Purdue University. Rebel since 1990.

Bachman, Gennady - Full Graduate Faculty Professor; B.A., Temple University; Ph.D., University of Illinois at Urbana-Champaign. Rebel since 1991.

Baragar, Arthur - Full Graduate Faculty Professor; B.S., University of Alberta; Ph.D., Brown University. Rebel since 1997.

Bhatnagar, Satish C. - Full Graduate Faculty Professor; B.A. (Honors), M.A., Panjab University, India; M.A., Ph.D., Indiana University. Rebel since 1974.

Burke, Douglas - Full Graduate Faculty Associate Professor; B.S., University of Wisconsin, Madison; M.A., University of California, Berkeley; Ph.D., University of California, Los Angeles. Rebel since 1994.

Chen, Le - Full Graduate Faculty Assistant Professor; B.S., Dalian Jiaotong University; M.S., Tsinghua University; Ph.D., École Polytechnique Fédérale de Lausanne. Rebel since 2018.

Cho, Hokwon - Full Graduate Faculty Associate Professor; B.A., Korea University; M.A., Ph.D., University of California, Santa Barbara. Rebel since 1999.
Doctor of Philosophy - Mathematical Sciences

Plan Description

UNLV’s Mathematical Sciences Ph.D. program is Nevada’s only Ph.D. program in the Mathematical Sciences. It is relatively new (established in 2005) and includes concentrations in Applied Math, Pure Math, Computational Math, and Statistics to serve students in many different areas of Mathematical Sciences.

The main part of the Ph.D. is the dissertation. The degree requirements also include: credit requirement, qualifying examination requirement, subject area breadth requirement. The qualifying examination requirement and the subject area breadth requirement are tailored according to the area of concentration.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

In addition to the requirements of the Graduate College, applicants must satisfy the admission requirements of the Department of Mathematical Sciences summarized as follows. Applicants seeking direct admission to the doctoral program without a previously earned master’s degree must have a minimum GPA of 3.00 for all undergraduate work or a minimum GPA of 3.25 for the last two years of undergraduate mathematics work. Applicants with a master’s degree must have a minimum GPA of 3.00 for all graduate work and at least 15 credits of graduate course work in Mathematical Sciences with a grade of B or better. Applicants must submit the official score of the GRE General Test with a minimum score in the top 35% on the GRE quantitative.

To apply for admission to the Ph.D. Program, applicants must submit application materials to both the Graduate College and the Department of Mathematical Sciences.
Firstly, applicants must submit to the Graduate College the following materials:

1. A completed application form.
2. The official transcripts from all colleges and universities the student has attended.

Secondly, applicants must submit to the Department the following materials:

1. Copies of all official transcripts sent to the Graduate College.
2. At least three letters of recommendation from persons familiar with the applicant’s academic record and potential for advanced study in mathematical sciences.
3. The official GRE General Test score
4. A completed application for Graduate Assistantship, if interested.
5. A statement of purpose describing the aim in applying for graduate study, the particular area of specialization within the mathematical sciences (if known), and any additional information that may aid the selection committee in evaluating preparation and aptitude for graduate study.

Details of the admission procedure for the Ph.D. Program can be found on the Department’s web site.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See subplan requirements below.

Subplan 1 Requirements: Post-Bachelor’s - Applied Mathematics Track

Total Credits Required: 78

Course Requirements

Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:

- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
  OR
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II

Required Courses Part 2 – Credits: 6
Select an advisor approved 2-semester sequence from one of the following:

- MAT 717 - Analytical Solution Methods for Partial Differential Equations, I
- MAT 718 - Analytical Solution Methods for Partial Differential Equations, II
  OR
- MAT 729 - Partial Differential Equations I
- MAT 730 - Partial Differential Equations II
  OR
- MAT 771 - Applied Analysis I
- MAT 772 - Applied Analysis II

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:

- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV
- MAT 723 - Advanced Ordinary Differential Equations I
- MAT 724 - Advanced Ordinary Differential Equations II
- MAT 729 - Partial Differential Equations I
- MAT 730 - Partial Differential Equations II
- MAT 733 - Topology
- MAT 734 - Topology
- MAT 765 - Advanced Numerical Analysis
- MAT 766 - Advanced Numerical Analysis
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Additional Courses – Credits: 12
Complete 12 credits of 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Elective Courses – Credits: 24
Complete 24 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18

- MAT 799 - Dissertation

Degree Requirements

See Plan Degree Requirements below.
Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Bachelor’s - Computational Mathematics Track
Total Credits Required: 78

Course Requirements
Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
  OR
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II

Required Courses Part 2 – Credits: 6
- MAT 765 - Advanced Numerical Analysis
- MAT 766 - Advanced Numerical Analysis

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV
  MAT 723 - Advanced Ordinary Differential Equations I
  MAT 724 - Advanced Ordinary Differential Equations II
  MAT 729 - Partial Differential Equations I
  MAT 730 - Partial Differential Equations II
  MAT 733 - Topology
  MAT 734 - Topology
  STA 767 - Mathematical Statistics I
  STA 768 - Mathematical Statistics II

Additional Courses – Credits: 12
Complete 12 credits of 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Elective Courses – Credits: 24
Complete 24 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18
- MAT 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 3 Requirements: Post-Bachelor’s - Pure Mathematics Track
Total Credits Required: 78

Course Requirements
Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
  OR
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II

Required Courses Part 2 – Credits: 6
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
- MAT 701 - Foundations of Mathematics III
- MAT 702 - Foundations of Mathematics IV
  MAT 717 - Analytical Solution Methods for Partial Differential Equations, I
  MAT 718 - Analytical Solution Methods for Partial Differential Equations, II
  MAT 723 - Advanced Ordinary Differential Equations I
  MAT 724 - Advanced Ordinary Differential Equations II
  MAT 733 - Topology
  MAT 734 - Topology

Complete two of the following one-year course sequences:
- MAT 701 - Foundations of Mathematics III
- MAT 702 - Foundations of Mathematics IV
  MAT 717 - Analytical Solution Methods for Partial Differential Equations, I
  MAT 718 - Analytical Solution Methods for Partial Differential Equations, II
  MAT 723 - Advanced Ordinary Differential Equations I
  MAT 724 - Advanced Ordinary Differential Equations II
  MAT 733 - Topology
  MAT 734 - Topology
• MAT 771 - Applied Analysis I
• MAT 772 - Applied Analysis II

• STA 767 - Mathematical Statistics I
• STA 768 - Mathematical Statistics II

Additional Courses – Credits: 12
Complete 12 credits of 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Elective Courses – Credits: 24
Complete 24 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18
• MAT 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 4 Requirements: Post-Bachelor’s - Statistics Track
Total Credits Required: 78

Course Requirements
Required Courses Part 1 – Credits: 6
• STA 767 - Mathematical Statistics I
• STA 768 - Mathematical Statistics II

Required Courses Part 2 – Credits: 6
• STA 761 - Regression Analysis I
• STA 762 - Regression Analysis II

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
• STA 713 - Experimental Design
• STA 715 - Multivariate Statistical Methods

• STA 750 - Time Series Analysis
• STA 751 - Spatial Statistics

• STA 755 - Stochastic Modeling I
• STA 756 - Stochastic Modeling II

• STA 753 - Bayesian Data Analysis
• STA 765 - Statistical Decision Theory

• STA 763 - Analysis of Variance I
• STA 764 - Analysis of Variance II

• MAT 707 - Real Analysis I
• STA 731 - Probability Theory and Its Applications

Additional Courses – Credits: 12
Complete 12 credits of 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Elective Courses – Credits: 24
Complete 24 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18
• STA 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 5 Requirements: Post-Master’s - Applied Mathematics Track
Credits Required: 48

Course Requirements
Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:
• MAT 707 - Real Analysis I
• MAT 708 - Real Analysis II
  OR
• MAT 709 - Complex Function Theory I
• MAT 710 - Complex Function Theory II

Required Courses Part 2 – Credits: 6
Select an advisor approved 2-semester sequence from one of the following:
• MAT 717 - Analytical Solution Methods for Partial Differential Equations, I
• MAT 718 - Analytical Solution Methods for Partial Differential Equations, II
  OR
• MAT 729 - Partial Differential Equations I
• MAT 730 - Partial Differential Equations II
  OR
• MAT 771 - Applied Analysis I
• MAT 772 - Applied Analysis II

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
• MAT 703 - Abstract Algebra III
• MAT 704 - Abstract Algebra IV

• MAT 723 - Advanced Ordinary Differential Equations I
• MAT 724 - Advanced Ordinary Differential Equations II

• MAT 729 - Partial Differential Equations I
• MAT 730 - Partial Differential Equations II

• MAT 733 - Topology
• MAT 734 - Topology

• MAT 765 - Advanced Numerical Analysis
• MAT 766 - Advanced Numerical Analysis

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18
• MAT 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 6 Requirements: Post-Master’s - Computational Mathematics Track
Total Credits Required: 48

Course Requirements
Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:
Subplan 7 Requirements: Post-Master’s - Pure Mathematics Track
Total Credits Required: 48

Course Requirements

Required Courses Part 1 – Credits: 6
Complete two analysis or two theory courses:
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
OR
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II

Required Courses Part 2 – Credits: 6
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
- MAT 701 - Foundations of Mathematics III
- MAT 702 - Foundations of Mathematics IV
- MAT 717 - Analytical Solution Methods for Partial Differential Equations, I
- MAT 718 - Analytical Solution Methods for Partial Differential Equations, II
- MAT 723 - Advanced Ordinary Differential Equations I
- MAT 724 - Advanced Ordinary Differential Equations II
- MAT 733 - Topology
- MAT 734 - Topology
- MAT 771 - Applied Analysis I
- MAT 772 - Applied Analysis II
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Dissertation – Credits: 18
- MAT 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 8 Requirements: Post-Master’s - Statistics Track
Total Credits Required: 48

Course Requirements

Required Courses Part 1 – Credits: 6
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Required Courses Part 2 – Credits: 6
- STA 761 - Regression Analysis I
- STA 762 - Regression Analysis II

Subject Area Courses – Credits: 12
Complete two of the following one-year course sequences:
- STA 713 - Experimental Design
- STA 715 - Multivariate Statistical Methods
- STA 750 - Time Series Analysis
- STA 751 - Spatial Statistics
- STA 755 - Stochastic Modeling I
- STA 756 - Stochastic Modeling II
- STA 753 - Bayesian Data Analysis
- STA 765 - Statistical Decision Theory
- STA 763 - Analysis of Variance I
- STA 764 - Analysis of Variance II
- MAT 707 - Real Analysis I
- STA 731 - Probability Theory and Its Applications

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.
courses.

Dissertation – Credits: 18
• STA 799 - Dissertation

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements

1. Students in a post-bachelor’s track must complete a minimum of 60 credits of course work (excluding dissertation), at least 18 of which must be at the 700-level.

2. Students in a post-master’s track must complete a minimum of 30 credits of course work (excluding dissertation), at least 18 of which must be at the 700-level.

3. A student must enroll in a minimum of 18 credits of Dissertation.

4. In consultation with his/her advisor, a student will organize a dissertation committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Qualifying Examination. The purpose of the Qualifying Examination is to measure the student’s knowledge of basic graduate course work in selected areas and to make sure that the student is prepared to proceed to more advanced studies.
   a. A doctoral student normally takes the Qualifying Examination within the second year after entering the program, based on the core courses in the student’s concentration.
   b. Doctoral students must pass the Qualifying Examination within three years.
   c. The Qualifying Examination consists of two parts, corresponding to Required Courses Part 1 & Part 2.
   d. A student who fails the Qualifying Examination on the first attempt will be placed on probation and must complete a second examination within the next twelve months.
      i. A post-bachelor’s track student who fails the second examination may be allowed to complete a M.S. degree with the consent of the Graduate Studies Committee. Such a student will not be permitted to seek readmission to the Doctoral Program in Mathematical Sciences at UNLV.
      ii. A post-master’s track student who fails the Qualifying Examination a second time will be separated from the program.

6. Subject Area Breadth Requirements. With the goal of encouraging students to be exposed to a broad spectrum of mathematics during their graduate studies, doctoral students are required to take at least two one-year sequence courses with a grade of B or better, in addition to the core courses tested by the Ph.D. Qualifying Examination.

7. The purpose of the Comprehensive Examination is to measure a doctoral student’s knowledge of the advanced level graduate work that will be required as the student begins to do original research in his or her area of concentration.
   a. After passing the Qualifying Examination, a student will engage in the approved course work specified by the Doctoral Advisory Committee and submit to the latter a dissertation proposal.
   b. Usually one year after passing the Qualifying Examination, a student will complete the Comprehensive Examination, designed and administered by the Doctoral Advisory Committee, based on the student’s course work with focus on his/her ability to perform research on the dissertation proposal.
   c. A student who fails the Comprehensive Examination on the first attempt must complete a second examination within the next semester. A student who fails the examination a second time will be separated from the Doctoral Program.
   d. A student who has successfully passed the Comprehensive Examination will be admitted to Candidacy for the Ph.D. degree and thereby be allowed to proceed with the approved dissertation proposal.

1. A doctoral candidate is expected to complete a dissertation embodying the results of significant original research, which is performed independently by the student, and is acceptable to the student’s advisory committee.

2. Skills in foreign languages, computer programming and/or interdisciplinary areas, dependent on the concentration of a student’s program, will be determined by the Doctoral Advisory Committee and the Graduate Studies Committee in consultation with the Department Chair.
3. Dissertation Defense. After submitting to the Doctoral Advisory Committee a dissertation draft that was approved by his/her Dissertation Advisor, a candidate will defend orally the dissertation before the Doctoral Advisory Committee and any other graduate faculty members who wish to attend. The Doctoral Advisory Committee will recommend to the Graduate Coordinator/Department Chair whether the dissertation and defense are both satisfactory.

4. Specific degree requirements, including those listed above, are described in detail in the Graduate Student Handbook for the Ph.D. Program, available on the department’s web site. The listing of graduate courses is constantly under review. Graduate students will automatically receive new listings. Since some courses are taught on an “on demand” basis, course prerequisites for each of the four concentrations are considered guidelines with courses roughly equivalent accepted as prerequisites, subject to approval of the Graduate Studies Committee and the student’s Doctoral Advisory Committee.

5. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

6. The Graduate College requires a minimum of 50 percent of the total credits required to complete the doctoral degree, exclusive of transferred credits and/or the dissertation, must be earned at UNLV after admission to a graduate degree program.

---

**Plan Graduation Requirements**

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

---

**Master of Science - Mathematical Sciences**

**Plan Description**

The degree is a well-established MS program with concentrations in Applied Math, Pure Math, Applied Statistics, and Math Education to serve students in many different areas of Mathematical Sciences.

The concentrations in Pure Math, Applied Math and Applied Statistics each include a core requirement corresponding to the given area. Additional credits are required so that students can develop knowledge in a field of interest. All three require the student to either defend a thesis or pass a written comprehensive exam corresponding to the core requirements.

The teaching mathematics concentration requires a variety of content courses, as well as, education courses. The degree options for the teaching math concentration include the opportunity to write a professional paper.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

1. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

2. Have a bachelor’s degree with a minimum GPA of 2.75 for all undergraduate work or a minimum GPA of 3.00 for the last two years of undergraduate work, and completed at least 18 credits of upper-division mathematics or statistics courses beyond calculus.

3. Submit application materials to both the Graduate College and the Department of Mathematical Sciences.

   a. Firstly, applicants must submit to the Graduate College the following materials:

      i. A completed online application

      ii. Submit official transcripts from all post-secondary institutions attended

   b. Secondly, applicants must submit to the Department of Mathematical Sciences the following materials:

      i. Copies of all transcripts sent to the Graduate College

      ii. At least two letters of recommendation from persons familiar with the applicant’s academic record and potential for advanced study in mathematical sciences

      iii. A statement of purpose describing the aim in applying for graduate study,
Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Pure Mathematics - Thesis Track

Total Credits Required: 33

Course Requirements

Analysis Courses – Credits: 6

Complete two of the following courses:
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II
- MAT 771 - Applied Analysis I
- MAT 772 - Applied Analysis II

Algebra Course – Credits: 3

Complete one of the following courses:
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV
- MAT 753 - Homological Algebra
- MAT 754 - Homological Algebra
- MAT 755 - Topics in Algebra

Area of Emphasis Courses – Credits: 6

Complete an additional 6 credits of 700-level MAT courses (excluding MAT 711 & 712) in a field of special interest.

Elective Courses – Credits: 12

Complete 12 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Thesis – Credits: 6
- MAT 791 - Thesis

Degree Requirements

1. Students must complete a minimum of 33 credit hours with a minimum GPA of 3.00.
2. Of the 33 required credits, 27 must be coursework. Of those 27 coursework credits, at least 18 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee. Students who fail to meet the conditions of their probation will be separated.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Pure Mathematics - Comprehensive Exam Track

Total Credits Required: 30

Course Requirements

Analysis Courses – Credits: 6

Complete two of the following courses:
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II
- MAT 771 - Applied Analysis I
- MAT 772 - Applied Analysis II

Algebra Course – Credits: 3

Complete one of the following courses:
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV
- MAT 753 - Homological Algebra
- MAT 754 - Homological Algebra
- MAT 755 - Topics in Algebra

Area of Emphasis Courses – Credits: 6

Complete an additional 6 credits of 700-level MAT courses (excluding MAT 711 & 712) in a field of special interest.

Elective Courses – Credits: 12

Complete 12 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Thesis – Credits: 6
- MAT 791 - Thesis
MAT 772 - Applied Analysis II

Algebra Course – Credits: 3
Complete one of the following courses:
• MAT 703 - Abstract Algebra III
• MAT 704 - Abstract Algebra IV
• MAT 753 - Homological Algebra
• MAT 754 - Homological Algebra
• MAT 755 - Topics in Algebra

Area of Emphasis Courses – Credits: 6
Complete an additional 6 credits of 700-level MAT courses (excluding MAT 711 & 712) in a field of special interest.

Elective Courses – Credits: 15
Complete 15 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Degree Requirements
1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. Of the 30 required credits, at least 18 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.
4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must pass a final comprehensive examination.

Subplan 3 Requirements: Applied Mathematics - Thesis Track
Total Credits Required: 33

Course Requirements
Required Courses – Credits: 6
Complete two of the following courses:
• MAT 707 - Real Analysis I
• MAT 708 - Real Analysis II
• MAT 709 - Complex Function Theory I
• MAT 710 - Complex Function Theory II
• MAT 771 - Applied Analysis I
• MAT 772 - Applied Analysis II

Numerical Analysis Course – Credits: 3
Complete one of the following courses:
• MAT 663 - Advanced Matrix Theory and Applications
• MAT 765 - Advanced Numerical Analysis
• MAT 767 - Topics in Numerical Analysis

Applied and Computational Courses – Credits: 6
Complete 6 credits of 700-level advisor-approved MAT coursework in applied and computational mathematics.

Elective Courses – Credits: 12
Complete 12 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Thesis – Credits: 6
• MAT 791 - Thesis

Degree Requirements
1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. Of the 33 required credits, 27 must be coursework. Of those 27 coursework credits, at least 18 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must pass a final comprehensive examination.
to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 4 Requirements: Applied Mathematics - Comprehensive Exam Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 6

Complete two of the following courses:

- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II
- MAT 771 - Applied Analysis I
- MAT 772 - Applied Analysis II

Numerical Analysis Course – Credits: 3

Complete one of the following courses:

- MAT 765 - Advanced Numerical Analysis
- MAT 767 - Topics in Numerical Analysis
- MAT 663 - Advanced Matrix Theory and Applications

Applied and Computational Courses – Credits: 6

Complete 6 credits of 700-level advisor-approved MAT coursework in applied and computational mathematics.

Elective Courses – Credits: 15

Complete 15 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. Of the 30 required credits, at least 18 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete a final comprehensive examination.

Subplan 5 Requirements: Applied Statistics - Thesis Track

Total Credits Required: 33

Course Requirements

Required Courses – Credits: 6

- MAT 657 - Introduction to Real Analysis I
- MAT 663 - Advanced Matrix Theory and Applications

Core Courses – Credits: 12

- STA 761 - Regression Analysis I
- STA 762 - Regression Analysis II
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Statistics Courses – Credits: 6

Complete an additional 6 credits of 700-level STA coursework in a field of special interest to the student.

Elective Courses – Credits: 3

Complete 3 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Thesis – Credits: 6

- STA 791 - Thesis

Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. Of the 33 required credits, 27 must be coursework. Of those 27 coursework credits, at least 18 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 6 Requirements: Applied Statistics - Comprehensive Exam Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 6

- MAT 657 - Introduction to Real Analysis I
- MAT 663 - Advanced Matrix Theory and Applications

Core Courses – Credits: 12

- STA 761 - Regression Analysis I
- STA 762 - Regression Analysis II
- STA 767 - Mathematical Statistics I
- STA 768 - Mathematical Statistics II

Statistics Courses – Credits: 6

Complete an additional 6 credits of 700-level STA coursework in a field of special interest to the student.

Elective Courses – Credits: 6

Complete 6 credits of 600- or 700-level MAT or STA courses (excluding MAT 711 & 712), or other advisor-approved courses.

Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.

2. Of the 30 required credits, 27 must be coursework. Of those 27 coursework credits, at least 18 must be 700-level.

3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a final comprehensive examination.

Subplan 7 Requirements: Teaching Mathematics - Professional Paper Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9

- MAT 711 - Survey of Mathematical Problems I
- MAT 712 - Survey of Mathematical Problems II
- MAT 714 - History of Mathematics

Algebra Course – Credits: 3

Complete one of the following courses:

- MAT 653 - Abstract Algebra I
- MAT 654 - Abstract Algebra II
- MAT 655 - Elementary Theory of Numbers I
- MAT 669 - Combinatorics I
- MAT 670 - Combinatorics II
Analysis Course – Credits: 3
Complete one of the following courses:

- MAT 657 - Introduction to Real Analysis I
- MAT 658 - Introduction to Real Analysis II
- MAT 659 - Elementary Complex Analysis
- MAT 688 - Partial Differential Equations
- MAT 707 - Real Analysis I
- MAT 708 - Real Analysis II
- MAT 709 - Complex Function Theory I
- MAT 710 - Complex Function Theory II

Foundations Course – Credits: 3
Complete one of the following courses:

- MAT 651 - Foundations of Mathematics I
- MAT 652 - Foundations of Mathematics II
- MAT 680 - College Geometry
- MAT 683 - General Topology I
- MAT 684 - General Topology II
- MAT 701 - Foundations of Mathematics III
- MAT 702 - Foundations of Mathematics IV

Education Courses – Credits: 6
Complete two of the following courses:

- CIS 622 - Instructional Middle School Mathematics Education
- CIS 624 - Instruction Secondary Mathematics Education
- CIG 620 - Principles of Learning Mathematics

Elective Courses – Credits: 3
Complete 3 credits of 600- or 700-level MAT or STA courses, or other advisor-approved courses.

Professional Paper – Credits: 3

- MAT 793 - Teaching Concentration Professional Paper Research

Degree Requirements

1. Students must complete a minimum of 30 credit hours with a minimum GPA of 3.00.
2. Of the 30 required credits, 27 must be coursework. Of those 27 coursework credits, at least 15 must be 700-level.
3. A student will be placed on academic probation if a minimum of 3.00 GPA is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.
4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete and defend a professional paper.

Subplan 8 Requirements: Teaching Mathematics - Comprehensive Exam Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 9

- MAT 711 - Survey of Mathematical Problems I
- MAT 712 - Survey of Mathematical Problems II
- MAT 714 - History of Mathematics

Algebra Course – Credits: 3
Complete one of the following courses:

- MAT 653 - Abstract Algebra I
- MAT 654 - Abstract Algebra II
- MAT 655 - Elementary Theory of Numbers I
- MAT 669 - Combinatorics I
- MAT 670 - Combinatorics II
- MAT 703 - Abstract Algebra III
- MAT 704 - Abstract Algebra IV

Analysis Course – Credits: 3
Complete one of the following courses:

- MAT 657 - Introduction to Real Analysis I
- MAT 658 - Introduction to Real Analysis II
- MAT 659 - Elementary Complex Analysis
- MAT 688 - Partial Differential Equations
Students must complete a minimum of 30 credit hours in consultation with his/her advisor. A student will be placed on academic probation if a grade of C or less is not maintained in all work taken in the degree program. A grade of C or less in one graduate-level course will cause a student to be placed on academic probation and will elicit a critical review of the student’s program by the Graduate Studies Committee.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a final comprehensive examination.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.

**MAT 651 - Foundations of Mathematics I**

Credits 3

Introduction to logic, set algebra and boolean algebra, with applications to the theory of computing machines. Notes: This course is crosslisted with MAT 451. Credit at the 600-level requires additional work.

The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

**MAT 652 - Foundations of Mathematics II**

Credits 3

Formalization, proofs, and models of quantificational logic; axiomatics; application to mathematical theories, including set theory. Notes: This course is crosslisted with MAT 452. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

**MAT 653 - Abstract Algebra I**

Credits 3

Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces. Notes: This course is crosslisted with MATH 453. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

**MAT 654 - Abstract Algebra II**

Credits 3

Sets, functions, groups, quotient groups, homomorphism theorems, Abelian groups, rings, polynomial rings, division rings, Euclidean domains, fields and vector spaces. Notes: This course is crosslisted with MATH 454. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

**MAT 655 - Elementary Theory of Numbers I**

Credits 3

Topics include divisibility, arithmetic functions, congruences, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions. Notes: This course is crosslisted with MATH 455. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.
MAT 656 - Elementary Theory of Numbers II  Credits 3  
Topics include divisibility, arithmetic functions, congruences, quadratic residues, primitive roots, Diophantine equations, continued fractions, algebraic numbers, and partitions. Notes: This course is crosslisted with MATH 456. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 657 - Introduction to Real Analysis I  Credits 3  
Topics include finite and infinite sets, axiomatic study of real numbers, topology of Cartesian spaces, sequences of functions, continuous functions, differentiation of functions of one variable. Notes: This course is crosslisted with MATH 457. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 658 - Introduction to Real Analysis II  Credits 3  
Topics include uniform continuity and fixed point theorems, sequences of continuous functions, approximation theorems, Riemann-Stieltjes integral, uniform convergence and infinite integrals, series of functions, differentiation in Rn. Notes: This course is crosslisted with MATH 458. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 659 - Elementary Complex Analysis  Credits 3  
Complex numbers, analytic functions, contour integration, conformal mapping, applications. Notes: This course is crosslisted with MAT 459. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 661 - Probability Theory  Credits 3  
Fundamental concepts of probability; random variables, binomial, Poisson, normal, chi-square, T, F and other distributions; transformations of random variables; conditional and marginal distributions; central limit theorem and concepts associated with the field of statistics. Notes: This course is crosslisted with MATH 461. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 663 - Advanced Matrix Theory and Applications  Credits 3  
Rigorous mathematical treatment of orthogonal matrices, Gram-Schmidt method, Q-R factorization, least-squares fits, eigenvalues and eigenvectors, linear difference equations, systems of linear differential equations, unitary similarities, Schur’s theorem, discrete Markov processes, power method, quadratic forms, singular value decompositions, pseudo-inverse, systems of linear inequalities, and simplex method. Notes: This course is crosslisted with MATH 463. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 666 - Numerical Methods I  Credits 3  
Introduction to numerical mathematics and scientific computing. Topics include methods of error estimation, interpolation theory, numerical integration, and solutions of linear and non-linear equations. Emphasizes hands-on computer work based on these techniques. Notes: The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program. This course is crosslisted with MATH 466. Credit at the 600-level requires additional work.

MAT 667 - Combinatorics I  Credits 3  
Graph models, covering circuits, graph colorings, trees and searching, general counting methods for arrangements and selections, generating functions, recurrence relations, and inclusion-exclusion. Notes: This course is crosslisted with MATH 467. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 668 - General Topology I  Credits 3  
Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology. Notes: This course is crosslisted with MATH 483. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 670 - Combinatorics II  Credits 3  
Advanced topics in combinatorics. Topics to be selected by the instructor. Notes: This course is crosslisted with MATH 470. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 672 - General Topology II  Credits 3  
General theory of differentiable manifolds, introduction to algebraic topology, homology groups, cohomology groups, and fixed point theory. Notes: This course is crosslisted with MATH 484. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.
MAT 684 - General Topology II  
Topological spaces, nets and filters, compactness, continuous functions, product and quotient spaces, introduction to algebraic topology. Notes: This course is crosslisted with MATH 484. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 686 - Partial Differential Equations  
Method of separation of variables, Fourier series, divergence theorem and Green's identities, equations of mathematical physics, initial and initial boundary value problems, well-posedness, heat conduction in a thin rod, vibrations of a string, Laplace's equation, solution of the Dirichlet problem for a disc and for a rectangle. This course is crosslisted with MATH 488. Coursework at the 600-level requires additional work. Formerly MAT 687 Notes: The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 690 - Independent Study  
Library research and reports on topics of mathematical interest. Notes: This course is crosslisted with MAT 499. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

MAT 701 - Foundations of Mathematics III  
Selection from the following topics: model theory, recursive function theory, set theory, mathematics of metamathematics. Prerequisites: MAT 652

MAT 702 - Foundations of Mathematics IV  
Selection from the following topics: model theory, recursive function theory, set theory, mathematics of metamathematics. Prerequisites: MAT 652

MAT 703 - Abstract Algebra III  
Detailed study of the following algebraic structures: groups, rings and ideals, fields, modules, and Galois theory. Prerequisites: A year of undergraduate abstract algebra or consent of instructor.

MAT 704 - Abstract Algebra IV  
Detailed study of the following algebraic structures: groups, rings and ideals, fields, modules, and Galois theory. Prerequisites: A year of undergraduate abstract algebra or consent of instructor.

MAT 707 - Real Analysis I  
Theory of measure, integration and differentiation: Banach spaces; Hilbert spaces; spaces of continuous functions. Prerequisites: MAT 658

MAT 708 - Real Analysis II  
Theory of measure, integration and differentiation: Banach spaces; Hilbert spaces; spaces of continuous functions. Prerequisites: MAT 658

MAT 709 - Complex Function Theory I  
Analytic functions, conformal mappings, Cauchy’s theorem, power series, Laurent series, the Riemann mapping theorem, harmonic functions, subharmonic functions, canonical mappings of multiply connected regions, analytic continuation. Prerequisites: MAT 657 or MAT 659 or equivalent.

MAT 710 - Complex Function Theory II  
Analytic functions, conformal mappings, Cauchy’s theorem, power series, Laurent series, the Riemann mapping theorem, harmonic functions, subharmonic functions, canonical mappings of multiply connected regions, analytic continuation. Prerequisites: MAT 657 or MAT 659 or equivalent.

MAT 711 - Survey of Mathematical Problems I  
Selected topics from logical reasoning, probability, combinatorics, graph theory, codes, number theory, constructibility, game theory, limits, functions, set theory and foundations, and plane geometry. Problem solving and techniques of proof emphasized throughout. Connections made between the mathematics of this course and secondary education mathematics. Prerequisites: Graduate standing and consent of instructor.

MAT 712 - Survey of Mathematical Problems II  
Continuation of topics listed for MAT 711 with emphasis on problem solving and techniques of proof. Again, connections made between the mathematical content of this course and mathematical content for secondary education. Prerequisites: MAT 711 or consent of instructor.

MAT 714 - History of Mathematics  
Historical development of mathematics from primitive origins to the present time. Lives of many mathematicians and their contributions to the development of mathematics. Prerequisites: Graduate standing and consent of instructor.

MAT 716 - Integrative Mathematical Topics  
Survey of mathematical topics in an integrative manner. The topics may cover theory and applications in long stretches including probability and statistics; combinatorics, number theory and algebra; geometry and topology; ODE and PDE; computation and numerical analysis; Real and complex analysis. Prerequisites: At least nine credits at 600-level as required in Requirement #1.

MAT 717 - Analytical Solution Methods for Partial Differential Equations, I  
Covers the basic theory and methods for solving linear partial differential equations. Emphasis on introducing various techniques to obtain analytical solutions of linear partial differential equations. Techniques include: Method of separation of variables; Fourier transform method; Laplace transform method; Green’s function method, etc. Prerequisites: MAT 487/687, or MAT 458/658, or consent of instructor.

MAT 718 - Analytical Solution Methods for Partial Differential Equations, II  
Covers the basic theory and methods for solving nonlinear partial differential equations. Emphasise on introducing various techniques to obtain analytical solutions. Techniques include: Generalized method of characteristics, method of shock wave solution, method of travelling wave solution, perturbation method, method of similarity solution, etc. Prerequisites: MAT 487/687, or MAT 717, or consent of instructor.

MAT 719 - Graph Theory I  
Advanced graduate level study of the topics: adjacency and incidence matrices, nonseparable graphs, trees, connectivity, edge-connectivity, Eulerian graphs, Hamiltonian graphs, line graphs, strong digraphs, groups and graphs, Cayley color graph, Reconstruction Problem, planar graphs, graph embeddings, crossing number, genus, and maximum genus. Prerequisites: MAT 670 or consent of instructor.

MAT 720 - Graph Theory II  
Advanced graduate level study of the topics: graph and map colorings, chromatic polynomials, matchings and independence in graphs, factorizations and decomposition, domination, extremal graph theory, and Ramsey theory. Prerequisites: MAT 719
MAT 723 - Advanced Ordinary Differential Equations I  Credits 3
Functional analysis; Frechet calculus; existence and uniqueness theorems for initial and boundary value problems; qualitative properties of solutions, particularly of linear equations. Prerequisites: MAT 671-672 or MAT 673-674

MAT 724 - Advanced Ordinary Differential Equations II  Credits 3
Topics to be selected from the following: Sturm-Liouville theory, stability theory, perturbation theory, numerical methods, the theory of invariant imbedding and functional differential equations. Prerequisites: MAT 723

MAT 729 - Partial Differential Equations I  Credits 3
Linear and nonlinear first order PDEs. Heat, wave and Laplace equations. Classical representation formulas in one and more dimensions. Properties of solutions: maximum principles, energy methods, uniqueness and regularity considerations. Prerequisites: MAT 687 or MAT 717

MAT 730 - Partial Differential Equations II  Credits 3
Develops a functional analytical framework which will give students a deeper understanding of the subject matter. Topics include Sobolev and Holder spaces, embedding inequalities, weak solutions, regularity and maximum principles. Prerequisites: MAT 708 and MAT 729, or consent of instructor.

MAT 731 - Mathematical Modeling  Credits 3
Process and techniques of mathematical modeling with an emphasis on differential equations based models, though other models may also be considered. Applications selected from physical, biological and social sciences. Modeling projects based on student interests. Symbolic computation software. Prerequisites: MAT 687 or MAT 717 or consent of instructor.

MAT 733 - Topology  Credits 3
Selected topics from algebraic and point-set topology with emphasis on algebraic topology. Prerequisites: MAT 684 or consent of instructor.

MAT 734 - Topology  Credits 3
Selected topics from algebraic and point-set topology with emphasis on algebraic topology. Prerequisites: MAT 684 or consent of instructor.

MAT 736 - Lightning Radiative Transfer I  Credits 3
The analysis of lightning events: cloud-to-ground and intra-cloud discharges, ground and space detection of lightning. Prerequisites: MAT 729 or consent of instructor.

MAT 737 - Lightning Radiative Transfer II  Credits 3
Diffusion propagation of Lightning, transport phenomena, and applications of advanced Twersky scattering through clouds.

MAT 751 - Topics in Foundations of Mathematics  Credits 3
Topics selected by the instructor. Notes: May be repeated for credit with the consent of the mathematics department. Except under special circumstances, total credits limited to six credits. Prerequisites: MAT 701, MAT 702

MAT 753 - Homological Algebra  Credits 3
Modules, categories and factors, tensors, Hom, Tor, Ext, the dimensions of rings and modules, derived factors, cohomology of groups and algebras. Prerequisites: MAT 703-704 or consent of instructor.

MAT 754 - Homological Algebra  Credits 3
Modules, categories and factors, tensors, Hom, Tor, Ext, the dimensions of rings and modules, derived factors, cohomology of groups and algebras. Prerequisites: MAT 703-704 or consent of instructor.

MAT 755 - Topics in Algebra  Credits 3
Topics selected by the instructor. Notes: May be repeated for credit with the consent of the mathematics department. Except under special circumstances, total credits limited to six. Prerequisites: MAT 703, MAT 704 or consent of instructor.

MAT 756 - Arithmetic on Elliptic Curves  Credits 3
The group structure of elliptic curves over the reals, complex numbers, the rationals, number fields, and finite fields; Bezout's theorem and its applications; projective geometry; genus; Mordell's theorem; points of finite order; and heights. Additional topics may include complex multiplication; modular forms; and factoring using elliptic curves. Prerequisites: MAT 653 and 654, or equivalent.

MAT 757 - Topics in Analysis  Credits 3
Topics selected by the instructor. Notes: May be repeated for credit with the consent of the mathematics department. Except under special circumstances, total credits limited to six. Prerequisites: MAT 707, MAT 708 or consent of instructor.

MAT 760 - Mathematical Scattering Theory and Applications I  Credits 3
Scalar, vector, and tensor scattering with diverse techniques applied to earth system and space science. General Reciprocity Relations Corresponding to Different Directions of Incidence, Dyadic Scattering Theory, Two-Space Scattering Formalism of Victor Twersky, and Applications to Earth and Space Related Problems. Prerequisites: MAT 717 or MAT 729 or consent of instructor.

MAT 761 - Mathematical Scattering Theory and Applications II  Credits 3
Advanced statistical mechanics and spatial statistics in relation to Twersky scattering with applications from earth system and space science. Calculation of bulk propagation parameters using both configurational and ensemble average in addition to spatial average. Application of Twersky multiple two-Space Scattering formalism to space and earth related problems. Prerequisites: MAT 760 or consent of instructor.

MAT 765 - Advanced Numerical Analysis  Credits 3
Numerical solution of ordinary and partial differential equations; advanced programming techniques; experiments with the computer. Notes: Topics selected by instructor. Three hours lecture, two hours laboratory. Prerequisites: MAT 666

MAT 766 - Advanced Numerical Analysis  Credits 3
Numerical solution of ordinary and partial differential equations; advanced programming techniques; experiments with the computer. Notes: Topics selected by instructor. Three hours lecture, two hours laboratory. Prerequisites: MAT 666

MAT 767 - Topics in Numerical Analysis  Credits 3
Topics selected by the instructor. Notes: May be repeated for credit with the consent of the mathematics department. Except under special circumstances, total credits limited to six. Prerequisites: MAT 765-766

MAT 771 - Applied Analysis I  Credits 3
Functional analysis in Banach spaces and Hilbert spaces, with emphasis on computational applications. Theoretical topics to be selected from: linear functionals and operators, fixed point theorems, iterative methods, elementary spectral theory. Applications to be selected from: finite element methods, finite difference methods, approximation and interpolation, optimization algorithms. Grading: Letter grade. Prerequisites: MAT 658 or consent of instructor.

MAT 772 - Applied Analysis II  Credits 3
Functional analysis in Banach spaces and Hilbert spaces, with emphasis on computational applications. Theoretical topics to be selected from: linear functionals and operators, fixed point theorems, iterative methods, elementary spectral theory. Applications to be selected from: finite element methods, finite difference methods, approximation and interpolation, optimization algorithms. Grading: Letter grade. Prerequisites: MAT 771 or consent of instructor.
MAT 775 - Calculus of Variations Credits 3
Variation of functionals, Euler-Lagrange equation, general variations, broken extremals, Weierstrass-Erdmann conditions, canonical forms, Noether’s theorem, Hamilton- Jacobi equations, Legendre’s condition, conjugate points, fields, E-function, sufficient conditions for extrema, Pontryagin’s principle, introduction to linear and non-linear optimal control theory. Prerequisites: MATH 428 or 658 or consent of instructor.

MAT 776 - Topics in Applied Mathematics Credits 3
Students are presented with very advanced and important topics of applied mathematics that are not given in other graduate courses. The topics would depend on the particular instructor and the particular graduate students. Topics may be repeated but a maximum of 6 credits can apply to program. Notes: May be repeated to a maximum of 6 credits. Prerequisites: MAT 659 or MAT 688 or consent of instructor.

MAT 780 - Advanced Graduate Workshop in Foundations Credits 3
Students are assigned advanced material to read, lecture on, and present to the class. Two years of 700-level mathematics in Foundations are required. The workshop is very time intensive, with additional weekly meetings required. Students will present polished lectures, based on their workshop presentations, at the Department’s Set Theory Seminar. Notes: May be repeated to a maximum of six credits. Prerequisites: MAT 751

MAT 789 - Topics in Advanced Mathematics Credits 3
Graduate-level course in some field of mathematics, at advanced level, depending upon the current interest of the staff and the students. Notes: May be repeated to a maximum of six credits.

MAT 790 - Independent Study Credits 1 – 3
Library work and reports on topics of mathematical interest. Notes: May be repeated for credit with the consent of the mathematics department. Except under special circumstances, total credits will be limited to six.

MAT 791 - Thesis Credits 1 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

MAT 793 - Teaching Concentration Professional Paper Research Credits 1 – 3
Individual research towards an applied professional paper under the direction of a faculty member. Notes: May be repeated any number of times, but no more than three credits will count towards degree requirements. Grading: S/F grading only. Prerequisites: Consent of instructor.

MAT 799 - Dissertation Credits 3-6
Research analysis and writing toward completion of dissertation and subsequent defense. A minimum of 18 dissertation credits is required for a degree program. Dissertation may be repeated but only a maximum of 36 credits may be used in students degree program. Grading: S/F grading only. Prerequisites: Successful completion of qualifying examination and approval by department.

STA 663 - Applied Statistics for Engineers Credits 3
Elementary probability, commonly used discrete and continuous probability distributions, estimation and hypothesis testing, categorical data testing, regression, model building, analysis of variance, product and system reliability and engineering applications, and quality control. Notes: This course is crosslisted with STAT 463. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

STA 667 - Introduction to Mathematical Statistics I Credits 3
Introduction to probability theory, random variables and their probability distributions, common discrete probability models, common continuous probability models, multivariate probability distributions, functions of random variables, methods of transformations, limiting distributions, and limit theorems. Notes: This course is crosslisted with STAT 467. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

STA 668 - Introduction to Mathematical Statistics II Credits 3
Sample and sampling distributions, estimation theory, evaluation of estimation, unbiased estimation, sufficiency, information inequality, methods of estimation, method of moments, maximum likelihood estimation, Bayesian estimation, confidence intervals, hypotheses testing, uniformly most powerful tests, likelihood ratio tests and related procedures, linear models, and non-parametric models. Prerequisites: STA 667 or consent of instructor.

STA 669 - Environmental Statistics I: Univariate Methods Credits 3
Principles of environmental sampling, testing for outliers, tests for normality, transformations for normality, sample size determinations, analysis of censored data, estimation of background contaminations, tolerance and confidence limits, calibration problem, quality control charts for data quality assessment of environmental data, statistical issues in environmental remediation, and probability of hot spot detection. Usage of statistical software packages. Notes: This course is crosslisted with STAT 469. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program.

STA 690 - Independent Study Credits 1-3
This course, when taught by a member of the graduate faculty, may be applied to a graduate program. For listings and a course description of this 600-level course, please consult the current Undergraduate Catalog under the corresponding 400 number. Notes: The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program. This course offered by another department may also be taken for graduate credit.
STA 691 - Statistics for Scientists I  Credits 3  Frequency distributions, descriptive statistics, elementary probability; Bernoulli, binomial, and normal distributions; statistical sampling, estimation, and hypothesis testing. Notes: This course is crosslisted with STAT 491. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program. This course offered by another department may also be taken for graduate credit.

STA 693 - Applied Regression Analysis  Credits 3  Line fitting; multiple linear and curvilinear regression models; variable selection techniques and examination of residuals, estimation, testing, and prediction; simple, multiple, and partial correlation. Notes: This course is crosslisted with STAT 493. Credit at the 600-level requires additional work. The 600-level MAT and STA courses that are normally available for graduate credit are those numbered 650 or higher; the exceptions are MAT 680, which may be counted for graduate credit in an education degree program, and STA 691, STA 693, and STA 695, which may be counted for graduate credit in a biological sciences program. This course offered by another department may also be taken for graduate credit.

STA 713 - Experimental Design  Credits 3  Fundamental principles of analysis of variance; one-way, two-way, and higher order designs; nested designs; randomized blocks; split plot designs; Latin squares; multiple comparisons; analysis of covariance. Prerequisites: MATH 181 and one of the following: STAT 411, STA 663 and STA 693.

STA 715 - Multivariate Statistical Methods  Credits 3  Multivariate techniques with emphasis on application. Topics include multivariate analysis of variance, discriminant analysis, canonical correlation and independence, principal component analysis, factor analysis, cluster analysis and analysis of repeated measurements. Prerequisites: MATH 181, MATH 463 and one of the following: STAT 411, STA 663, STA 691.

STA 731 - Probability Theory and Its Applications  Credits 3  Topics include: set theory, limits of sets, probability space, random variables, measurability, independence, expectation, probability inequalities, convergence, laws of large numbers, central limit theorem, moment generating functions, characteristic functions, large deviation theory, martingale theory, random walk. Prerequisites: MAT 657

STA 751 - Spatial Statistics  Credits 3  Stochastic process, first and second order stationarity, intrinsic hypothesis, models of spatial dependence, different forms of Kriging — Ordinary Kriging, Universal Kriging, Probability Kriging, bicubic splines, conditional simulation. Prerequisites: STA 667 or consent of instructor.

STA 753 - Bayesian Data Analysis  Credits 3  This course will present methods for statistical modeling and data analysis from a Bayesian perspective. Topics include: Bayes’ Theorem, prior and posterior distributions, computational algorithms for posterior simulation, statistical software and programming, as well as model formulation and diagnostics for linear, generalized linear, and hierarchical models. Prerequisites: STA 667 or equivalent, or consent of instructor.

STA 755 - Stochastic Modeling I  Credits 3  Probability theory, Markov chains in discrete and continuous time, the Poisson process, renewal theory, queuing theory, reliability theory, martingales, stationary processes, statistical inference for stochastic processes, and simulation techniques. Prerequisites: STA 667 or consent of instructor.

STA 756 - Stochastic Modeling II  Credits 3  Probability theory, Markov chains in discrete and continuous time, the Poisson process, renewal theory, queueing theory, reliability theory, martingales, stationary processes, statistical inference for stochastic process, and simulation techniques. Prerequisites: STA 755

STA 761 - Regression Analysis I  Credits 3  Fitting a straight line, matrix theory, examining residuals, selecting the “best” fit, multiple regression, non-linear regressions, multivariate normal, estimation, classification, principal components, canonical correlation, distribution of characteristic roots. Prerequisites: STA 667 and MAT 663, or equivalent.

STA 762 - Regression Analysis II  Credits 3  Fitting a straight line, matrix theory, examining residuals, selecting the “best” fit, multiple regression, non-linear regressions, multivariate normal, estimation, classification, variance-covariance matrix, testing sets of variates, principal components, canonical correlation, distribution of characteristic roots. Prerequisites: STA 667 and MAT 663 or equivalent.

STA 763 - Analysis of Variance I  Credits 3  Special topics in matrix theory; noncentral chi-square, F, and t; the multivariate normal distribution; Cochran’s theorem; point and interval estimation; one-, two-, three-, higher-way layouts; Latin squares, incomplete blocks and nested designs, analysis of covariance; random effects models; mixed models; randomization models. Prerequisites: STA 667 and MAT 663 or equivalent.

STA 764 - Analysis of Variance II  Credits 3  Special topics in matrix theory; noncentral chi-square, F, and t; the multivariate normal distribution; Cochran’s theorem; point and interval estimation; one-, two-, three-, higher-way layouts; Latin squares, incomplete blocks and nested designs, analysis of covariance; random effects models; mixed models; randomization models. Prerequisites: STA 667 and MAT 663 or equivalent.

STA 765 - Statistical Decision Theory  Credits 3  Introduction to decision theory, decision rules, loss functions, risk functions, decision principles, utility theory, prior information and subjective probability, noninformative priors, the posterior distribution, conjugate families, predictive distribution, Bayesian estimators, generalized Bayes estimators, credible regions, hypothesis testing, admissibility of Bayes rules, robustness of Bayes rules, minimax analysis, invariance, Bayesian sequential analysis. Prerequisites: STA 667 or consent of instructor.

STA 767 - Mathematical Statistics I  Credits 3  Basic probability theory, conditional probability, independence, random variables, probability distribution functions, distribution functions, transformations, function of random variables, expectations, moment generating functions, discrete and continuous distributions, exponential family, joint distribution, marginal distribution, modes of convergence, limiting distribution, random sample, sampling distribution, principle of data reduction. Prerequisites: STA 667 or consent of instructor.

STA 768 - Mathematical Statistics II  Credits 3  Random sample, sampling theory, point estimation, sufficiency, likelihood, method of moment, maximum likelihood estimator, Bayes estimator, unbiasedness, optimality, decision theory, hypothesis testing, likelihood ratio tests, Bayes test, most powerful test, set estimation, evaluating interval estimators, sequential estimation, asymptotics, robustness, linear models. Prerequisites: STA 767

Graduate Catalog • College of Sciences 686
STA 777 - Survival Analysis Credits 3
Statistical methods for modeling and analysis of time to event data. Topics include survival function and hazard function; Kaplan-Meier estimator; Greenwood’s formula; log-rank and weighted log-rank tests; regression modeling of survival data including proportional hazards model and accelerated failure time model; competing risks. Prerequisites: STA 768

STA 789 - Topics in Advanced Statistics Credits 3
Graduate-level course in some field of statistics, depending upon the current interest of the faculty and the students. Notes: May be repeated to a maximum of six credits.

STA 790 - Independent Study Credits 1 – 3
Library research and reports on topics of statistical interest. Notes: May be repeated to a maximum of six credits with consent of the department.

STA 791 - Thesis Credits 3 – 6
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits applied to the student’s program. Grading: S/F grading only.

STA 793 - Techniques of Statistical Consulting Credits 1 – 3
Seminar series and practicum covering technical and nontechnical aspects of statistical consulting, including skills for effective communication with clients, report writing, issues in sampling and design of experiments, and other statistical tools commonly used in a consulting setting. Notes: May be repeated to a maximum of six credits.

STA 799 - Dissertation Credits 3-6
Research analysis and writing toward completion of dissertation and subsequent defense. A minimum of 24 dissertation credits is required for the degree program. Dissertation may be repeated but only a maximum of 36 credits may be used in students degree program. Prerequisites: Successful completion of qualifying examination and approval by department.

Physics and Astronomy
The Department of Physics and Astronomy offers M.S. and Ph.D. degrees in physics, with concentrations in three research areas: laser physics, high pressure physics (in collaboration with LLNL and LANL), and condensed matter physics. The Department of Physics and Astronomy also offers M.S. and Ph.D. degrees in Astronomy. The astronomers make use of space telescopes such as the Hubble Space Telescope, Swift, Chandra Xray Observatory and XMM-Newton Observatory, etc. to conduct research. The department’s experimental research programs are supported by fully equipped laboratories and mechanical, electronic and glass shops. The department is well equipped with state-of-the-art computing facilities, which allow for performing virtually any modeling and computer simulation.

Stephen Lepp, Ph.D., Chair
Victor Kwong, Ph.D., Graduate Coordinator

Physics and Astronomy Faculty
Chair
Lepp, Stephen - Full Graduate Faculty Professor; B.S., University of Minnesota; M.A., Ph.D., University of Colorado, Boulder. Rebel since 1991.

Graduate Coordinator
Kwong, Victor H. - Full Graduate Faculty Professor; B.S., Queen’s University; M.S., University of Windsor; Ph.D., University of Toronto. Rebel since 1984.

Graduate Faculty
Chen, Changfeng - Full Graduate Faculty Professor; B.S., Ph.D., Peking University. Rebel since 1990.

Cornelius, Andrew - Full Graduate Faculty Professor; B.S., Drake University; Ph.D., Washington University. Rebel since 1999.

Jeffery, David - Full Graduate Faculty Assistant Professor in Residence; Ph.D., McMaster University

Kim, Eunja - Associate Graduate Faculty Assistant Research Professor; MS, Ph.D., Jeonbuk National University, Korea. Rebel since 2003.

Kumar, Ravhi - Full Graduate Faculty Associate Research Professor; Ph.D., Anna University, Chennai. Rebel since 2001.

Lavina, Barbara - Full Graduate Faculty Associate Research Professor; MS, Ph.D., University of Pdova, Italy. Rebel since 2006.

Lepp, Stephen H. - Full Graduate Faculty Professor; B.S., University of Minnesota; M.A., Ph.D., University of Colorado, Boulder. Rebel since 1991.

Martin, Rebecca - Full Graduate Faculty Assistant Professor; B.A., MS, Churchill College, Cambridge University UK, Ph.D., Institute of Astronomuy and Jesus College, Cambridge University, UK. Rebel since 2015.

Pang, Tao - Full Graduate Faculty Professor; B.S., Fudan University; Ph.D., University of Minnesota. Rebel since 1991.

Porter, Tim - Full Graduate Faculty Professor; Ph.D., Arizona State University,

Pravica, Michael - Full Graduate Faculty Associate Professor; B.S., Cal Tech; A.M., Ph.D., Harvard University. Rebel since 2003.
Proga, Daniel - Full Graduate Faculty Professor; M.S., Nicolaus Copernicus University; Ph.D. Nicolaus Copernicus Astronomical Center. Rebel since 2005.

Rhee, George - Full Graduate Faculty Associate Professor; B.A., Cambridge University; M.Sc., Leiden University; M.A., Cambridge University; Ph.D., Leiden University. Rebel since 1993.

Salamat, Ashkan - Full Graduate Faculty Assistant Professor; MS, Imperial College, UK; Ph.D., University College London, UK. Rebel since 2015.

Selser, James C. - Full Graduate Faculty Professor; B.S., U.S. Air Force Academy; M.S., Ph.D., University of California, Davis. Rebel since 1981.

Shelton, David P. - Full Graduate Faculty Professor; B.A., M.S., Ph.D., University of Manitoba. Rebel since 1988.

Steffen, Jason - Full Graduate Faculty Assistant Professor; B.S., Weber State University, UT; MS, University of Washington, WA; Ph.D., University of Washington, WA. Rebel since 2015.

Wang, Liping - Full Graduate Faculty Associate Research Faculty; BS, University of Science and Technology, China; MS, Ph.D., University of Michigan, MI. Rebel since 2011.

Zhao, Yusheng - Full Graduate Faculty Professor; B.S., M.S., Ph.D., Peking University. Rebel since 2004.

Zhu, Zhaohuan - Full Graduate Faculty Assistant Professor; Ph.D., University of Michigan. Rebel since 2017

Doctor of Philosophy - Astronomy

Plan Description

The purpose of the Astronomy M.S. and Ph.D. degrees are to prepare students for a career in Astronomy or Astrophysics Research or in education at the university level. The program achieves this with a custom program for each student set up by their advisor and their advising committee. In the case of the Ph.D. the research must be original research conducted independently by the student.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Applicants must have an undergraduate degree or a Masters degree in Physics, Astronomy or related area.

2. Applicants must have a minimum GPA of 2.75 for all undergraduate work or a minimum 3.00 GPA for the last two years of undergraduate work.

3. Applicants seeking direct admission to the doctoral program without a previously earned Master of Science degree must have a score in the 65th percentile or above on the Advanced Physics portion of the GRE before admission and have a minimum GPA of 3.00 for all undergraduate work or an overall 3.25 GPA for the last two years of undergraduate work.

4. Applicants with a Master’s degree must have an overall 3.00 GPA in their Master’s program and at least 15 credit hours of graduate-level course work in physics or astronomy with a grade of B or better. A student entering with a Master’s degree will be required to complete at least 30 additional credits, including dissertation credits, beyond the Masters.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.
Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Post-Bachelor’s Track

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 9
- AST 713 - Astrophysics I
- AST 714 - Astrophysics II
- PHYS 700 - Mathematical Physics I

Theory Course – Credits: 3
Complete one of the following courses:
- PHYS 711 - Electromagnetic Theory I
- PHYS 721 - Quantum Theory I
- PHYS 702 - Classical Mechanics I

Astronomy Courses – Credits: 9
Complete three of the following courses:
- AST 710 - Observational Astronomy Techniques
- AST 721 - Astrophysics of Gaseous Nebulae and Active Galactic Nuclei
- AST 725 - High Energy Astrophysics
- AST 727 - Cosmology
- AST 731 - Stellar Atmospheres: Theory, Observation, and Analysis
- AST 747 - Interstellar Medium
- PHYS 771 - Advanced Topics in Experimental and Theoretical Physics

Graduate Seminar Course – Credits: 6
Complete 6 credits of the following course, including three acceptable presentations.
- PHYS 796 - Graduate Seminar

Elective Courses – Credits: 15
Complete 15 credits of 600- or 700-level AST or PHYS courses, or other advisor-approved courses.

Dissertation – Credits: 18
- PHYS 799 - Doctoral Dissertation

Degree Requirements
1. The student must complete a minimum of 60 credits.
2. A minimum grade of B- is required in each course. An overall GPA of 3.00 or better is required in all course work which is part of the degree program.

3. Satisfactory performance on an astronomy qualifying examination on graduate astronomy knowledge. This requirement must be fulfilled by the second year in the program. Students who fail to pass the exam within the specified timeline will be placed on academic probation and will be allowed one retake of the exam. Failure to pass the retake or meet the requirements of academic probation will result in separation.

4. A dissertation of high quality consisting of significant original research.

5. Satisfactory performance on a final examination which will consist of an oral defense of the dissertation.

Graduation Requirements

See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Master’s Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 0-9
Complete 0-9 credits from the following list of courses:
- AST 713 - Astrophysics I
- AST 714 - Astrophysics II
- PHYS 700 - Mathematical Physics I

Theory Course – Credits: 0-3
Complete 0-3 credits from the following list of courses:
- PHYS 702 - Classical Mechanics I
- PHYS 711 - Electromagnetic Theory I
- PHYS 721 - Quantum Theory I

Astronomy Courses – Credits: 0-9
Complete 0-9 credits from the following list of courses:
- AST 710 - Observational Astronomy Techniques
- AST 721 - Astrophysics of Gaseous Nebulae and Active Galactic Nuclei
- AST 725 - High Energy Astrophysics
- AST 727 - Cosmology
- AST 731 - Stellar Atmospheres: Theory, Observation, and Analysis
- AST 747 - Interstellar Medium
- PHYS 771 - Advanced Topics in Experimental and Theoretical Physics

Seminar Course – Credits: 0-6
Complete 0-6 credits of the following, including three acceptable presentations.
- PHYS 796 - Graduate Seminar
Doctor of Philosophy - Physics

Plan Description

The purpose of the Physics M.S. and Ph.D. degrees are to prepare students for a career in Physics Research or in education at the university level. The program achieves this with a custom program for each student set up by their advisor and their advising committee. In the case of Ph.D. the students will be able to conduct these steps independently.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Applicants seeking direct admission to the doctoral program without a previously earned Master of Science degree must have a score in the 65th percentile or above on the Advanced Physics portion of the GRE before admission. Applicants with a bachelor’s degree in physics must have a minimum GPA of 3.00 for all undergraduate work or a 3.25 GPA for the last two years of undergraduate work, and a minimum of 18 credits of upper-division physics.

2. Applicants with a master’s degree in physics must have at least 15 credit hours of graduate-level course work in physics with a grade of B or better and a 3.25 GPA in the master’s program.

3. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan I Requirements: Post-Bachelor’s Track

Total Credits Required: 60

Course Requirements

Required Courses – Credits: 18

- PHYS 700 - Mathematical Physics I
- PHYS 711 - Electromagnetic Theory I
- PHYS 712 - Electromagnetic Theory II
- PHYS 721 - Quantum Theory I
- PHYS 722 - Quantum Theory II
- PHYS 731 - Statistical Physics I

Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a qualifying exam and submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Dissertation – Credits: 18

- PHYS 799 - Doctoral Dissertation

Degree Requirements

1. Students must take an advisor approved combination of the coursework listed above, completing a minimum of 30 credits. Additional credits may be required to address student deficiencies or build specialized expertise.

2. The total number of Required, Theory, Astronomy, and Seminar courses will be determined in consultation with the student’s advisor.

3. A minimum grade of B- is required in each course. An overall GPA of 3.00 or better is required in all course work which is part of the degree program.

4. Satisfactory performance on an astronomy qualifying examination on graduate astronomy knowledge. This requirement must be fulfilled by the second year in the program. Students who fail to pass the exam within the specified timeline will be placed on academic probation and will be allowed one retake of the exam. Failure to pass the retake or meet the requirements of academic probation will result in separation.

5. A dissertation of high quality consisting of significant original research.


Graduation Requirements

See Plan Graduation Requirements below.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a qualifying exam and submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.
Elective Courses – Credits: 18
Complete 18 credits of 600- or 700-level AST or PHYS courses, or other advisor-approved courses.

Graduate Seminar Course – Credits: 6
Complete 6 credits of the following, including three acceptable presentations.
  • PHYS 796 - Graduate Seminar

Dissertation – Credits: 18
  • PHYS 799 - Doctoral Dissertation

Degree Requirements
1. Students must complete a minimum of 60 credits.
2. A minimum grade of B- is required in each course. An overall GPA of 3.00 or better is required on all course work that is part of the degree program.
3. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
4. Each student’s advisory committee will carry out an annual review of the student’s progress.
5. Course work taken outside the Physics & Astronomy Department must have departmental approval.
6. Satisfactory performance on a written qualifying examination on advanced undergraduate physics must be fulfilled during the first two years in the graduate program. Students who fail to pass the exam within the specified timeline will be placed on academic probation and will be allowed one retake of the exam. Failure to pass the retake or meet the requirements of academic probation will result in separation.
7. A dissertation of high quality. The doctoral dissertation reports the results of significant original research, performed independently by the student, written in lucid scientific prose.
8. Satisfactory performance on a final examination that will consist of an oral defense of the dissertation.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Post-Master’s Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 6-18
Complete 6-18 credits from the following list of courses:
  • PHYS 722 - Quantum Theory II
  • PHYS 731 - Statistical Physics I
  • PHYS 700 - Mathematical Physics I
  • PHYS 711 - Electromagnetic Theory I
  • PHYS 712 - Electromagnetic Theory II
  • PHYS 721 - Quantum Theory I

Graduate Seminar Course – Credits: 0-6
Complete 0-6 credits of the following, including three acceptable presentations.
  • PHYS 796 - Graduate Seminar

Dissertation – Credits: 18
  • PHYS 799 - Doctoral Dissertation

Degree Requirements
1. Students must take an advisor approved combination of the coursework listed above, completing a minimum of 30 credits. Additional credits may be required to address student deficiencies or build specialized expertise.
2. The total number of Required Courses and Graduate Seminar Courses will be determined in consultation with the student’s advisor.
3. A minimum grade of B- is required in each course. An overall GPA of 3.00 or better is required on all course work that is part of the degree program.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Each student’s advisory committee will carry out an annual review of the student’s progress.
6. Course work taken outside the Physics & Astronomy Department must have departmental approval.
7. Satisfactory performance on a written qualifying examination on advanced undergraduate physics must be fulfilled during the first two years in the graduate program. Students who fail to pass the exam within the specified timeline will be placed on academic probation and will be allowed one retake of the exam. Failure to pass the retake or meet the requirements of academic probation will result in separation.

8. A dissertation of high quality. The doctoral dissertation reports the results of significant original research, performed independently by the student, written in lucid scientific prose.

9. Satisfactory performance on a final examination that will consist of an oral defense of the dissertation.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. After the dissertation defense, the student must electronically submit a properly formatted pdf copy of their dissertation to the Graduate College for format check. Once the dissertation format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for dissertation defenses, format check submissions, and the final ProQuest submission can be found here.

Master of Science - Astronomy

Plan Description
The purpose of the Astronomy M.S. and Ph.D. degrees are to prepare students for a career in Astronomy or Astrophysics Research or in education at the university level. The program achieves this with a custom program for each student set up by their advisor and their advising committee. At the M.S. level we have two options. A coursework M.S., wherein students take classes at the graduate level in Astronomy and pass an exam. We also offer a thesis option where students will learn to formulate, conduct and report on research.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

1. Applicants must have an undergraduate degree in Physics, Astronomy or other related area.

2. Applicants must have a minimum grade point average (GPA) of 2.75 for all undergraduate work or a minimum 3.00 GPA for the last two years of undergraduate work.

3. Applicants must have completed 18 semester credits of upper-division physics.

4. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 24
Complete 24 credits of 600- or 700-level AST or PHYS courses, or other advisor-approved courses.

Thesis – Credits: 6
• PHYS 797 - Thesis

Degree Requirements
1. Complete a minimum of 30 graduate credits.
2. Complete a minimum of 15 credits (excluding thesis) in 700-level astronomy or physics courses.
3. A GPA of 3.00 or better is required in all course work which is part of the degree program.

4. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 6

- AST 713 - Astrophysics I
- AST 714 - Astrophysics II

Core Courses – Credits: 6

Complete two of the following courses:

- AST 710 - Observational Astronomy Techniques
- AST 721 - Astrophysics of Gaseous Nebulae and Active Galactic Nuclei
- AST 725 - High Energy Astrophysics
- AST 727 - Cosmology
- AST 747 - Interstellar Medium
- PHYS 771 - Advanced Topics in Experimental and Theoretical Physics

Elective Courses – Credits: 18
Complete 18 credits of 600- or 700-level AST or PHYS courses, or other advisor-approved courses.

Degree Requirements

1. Complete a minimum of 30 graduate level credits in physics, astronomy, or related fields (excluding graduate seminar).

2. Complete at least 15 credits of 700-level astronomy or physics courses.

3. A GPA of 3.00 or better in all course work which is part of the degree program.

4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Satisfactory performance on an astronomy qualifying examination on graduate astronomy knowledge at the master’s level.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a qualifying examination.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
Master of Science - Physics

Plan Description

The purpose of the Physics M.S. and Ph.D. degrees are to prepare students for a career in Physics Research or in education at the university level. The program achieves this with a custom program for each student set up by their advisor and their advising committee. At the M.S. level students will learn to formulate, conduct and report on research.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. Applicants must have a minimum GPA of 2.75 for all undergraduate work or a 3.00 GPA for the last two years of undergraduate work.
2. The applicant must have completed 18 semester credits of upper-division undergraduate physics.
3. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1: Thesis Track
Subplan 2: Non-Thesis Track

Subplan 1 Requirements: Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 24

• PHYS 797 - Thesis

Degree Requirements

1. A minimum of 30 graduate credits is required, including a minimum of 15 credits (excluding thesis) in 700-level courses.
2. A GPA of 3.00 or better is required in all course work which is part of the degree program.
3. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete and defend a thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 6

• PHYS 711 - Electromagnetic Theory I
• PHYS 721 - Quantum Theory I

Core Courses – Credits: 6

Complete two additional advisor approved 700 level PHYS courses.

Elective Courses – Credits: 18

Complete 18 Credits of 600- or 700-level AST or PHYS courses, or other advisor approved graduate courses.

Degree Requirements

1. Complete a minimum of 30 graduate level credits in physics, astronomy, or related fields (excluding graduate seminar).
2. Complete at least 15 credits of 700-level astronomy or physics courses.
3. A GPA of 3.00 or better in all course work which is part of the degree program.
4. In consultation with his/her advisor, a student will organize an advisory committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the
student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Satisfactory performance on a physics qualifying examination on graduate physics knowledge at the master’s level.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must pass a qualifying examination.

Plan Graduation Requirements

Refer to your Subplan for Graduation Requirements.

Subplan 1: Thesis Track
Subplan 2: Non-Thesis Track

AST 710 - Observational Astronomy Techniques Credits 3
Techniques used in observational astronomy. Students plan and execute an observing program on a research grade telescope. Data reduction and analysis using standard professional software packages and procedures. Prerequisites: Graduate standing.

AST 713 - Astrophysics I Credits 3
Laws of physics applied to astrophysical situations. Notes: Major topics include solar physics, element synthesis, stellar evolution, end states of stars. Prerequisites: Graduate standing.

AST 714 - Astrophysics II Credits 3
Laws of physics applied to astrophysical situations. Notes: Major topics include interstellar medium, the Milky Way, active galaxies, galaxy clusters, the Big Band. Prerequisites: Graduate standing.

AST 721 - Astrophysics of Gaseous Nebulae and Active Galactic Nuclei Credits 3
Theory and observations used to determine the physical conditions in gaseous nebulae (H II regions, planetary nebulae, supernova remnants, etc.) and active galactic nuclei. Formation of spectra in these regions and analysis to determine temperatures, density and chemical composition. Recent observational results also discussed. Same as Previously known as PHYS 777 Prerequisites: Graduate standing.

AST 723 - Astrophysical Fluids Credits 3
Physics of fluids applied to astrophysical situations. Major topics include single-fluid theory, waves, shocks, fronts, magnetohydrodynamics, and plasma physics.

AST 725 - High Energy Astrophysics Credits 3
Introduction of high energy astrophysics. Theory to understand high energy phenomena in the universe, including radiation mechanisms and various energy power sources (accretion, nuclear, spindown, magnetic). Objects include neutron stars, black holes, bursters. Brief introduction of neutrino, cosmic ray, and gravitational astrophysics.

AST 727 - Cosmology Credits 3
Classical cosmology, the isotropic universe, gravitational lensing the age and distance scales, the early universe, observational cosmology, matter in the universe, galaxies and their evolution, active galaxies, galaxy formation and clustering, cosmic background fluctuations. Same as Previously known as PHYS 777 Prerequisites: Graduate standing.

AST 729 - Galaxies Credits 3
Observation and theoretical basis for our current understanding of galactic astronomy. Major topics include Morphology of Galaxies, the Milky Way, equilibria of collisionless systems, spiral structure, and dark matter. Prerequisites: Graduate standing.

AST 731 - Stellar Atmospheres: Theory, Observation, and Analysis Credits 3
Theoretical treatment of stellar atmospheric structure and radiative transfer, state-of-the-art astrophysical analysis techniques used to derive atmospheric parameters, our current observational understanding of stellar atmospheres, special topics in stellar atmospheres (pulsation, chromospheric activity, etc.), and relevance to galactic and extragalactic astronomy. Prerequisites: Graduate standing.

AST 747 - Interstellar Medium Credits 3
Physics of the interstellar medium. Overall chemical, thermal and physical state of the gas in our galaxy. Astrochemistry, cosmic rays, radiative transfer, atomic and molecular physics, thermal equilibrium, and the overall dynamics of the galaxy. Same as Previously known as PHYS 771 Prerequisites: Graduate standing.

PHYS 604 - Computational Techniques in Physics Credits 3
Application of numerical methods to simulation of physical systems, including topics in classical mechanics, electrostatics, quantum mechanics, scattering, nonlinear dynamics and chaos. Notes: This course is crosslisted with PHYS 404. Credit at the 600-level requires additional work.

PHYS 614 - Intermediate Laboratory II Credits 3
Further experimental investigations of phenomena in classical and modern physics. Emphasis on problem solving, experimental technique, data analysis, and independent work. Students encouraged to alter or extend the experiments and engage in projects. Notes: This course is crosslisted with PHYS 414. Credit at the 600-level requires additional work.

PHYS 622 - Electricity and Magnetism Credits 3
Electrostatics, magnetic fields, and electromagnetism. Maxwell’s equations, theory of metallic conduction, motion of charged particles, radiation. Notes: This course is crosslisted with PHYS 422. Credit at the 600-level requires additional work.

PHYS 624 - Mechanics Credits 3
Newtonian mechanics. Mathematical formulation of the dynamics of a particle and systems of particles, including applications to atomic physics. Mechanics of continuous media using Fourier series. Introduction to generalized coordinates and the methods of Lagrange and Hamilton. Notes: This course is crosslisted with PHYS 424. Credit at the 600-level requires additional work.

PHYS 631 - Nuclear and Elementary Particle Physics Credits 3
Survey of basic nuclear concepts and structure. Interactions between nuclear radiations and matter, nuclear reactions and decay, nuclear force, sub-atomic structure and models, symmetries and conservation laws. Notes: This course is crosslisted with PHYS 431. Credit at the 600-level requires additional work.

PHYS 641 - Mathematical Physics I Credits 3
Application of selected mathematical techniques to problems in physics. Notes: This course is crosslisted with PHYS 441. Credit at the 600-level requires additional work.

PHYS 642 - Mathematical Physics II Credits 3
Application of selected mathematical techniques to problems in physics. Notes: This course is crosslisted with PHYS 442. Credit at the 600-level requires additional work.

PHYS 651 - Modern Scientific Instrumentation Credits 3
Electronics for scientists, including circuit design and construction using analog and digital integrated circuits. Introduction to machining, glassblowing, and fabrication techniques. Notes: This course is crosslisted with PHYS 451. Credit at the 600-level requires additional work.

PHYS 661 - Light and Physical Optics Credits 3
Survey of geometric optics and optical instruments. Selected topics in physical optics including interference, diffraction and polarization, with applications; the nature of light. Notes: This course is crosslisted with PHYS 461. Credit at the 600-level requires additional work.
PHYS 667 - Thermodynamics  Credits 3
Fundamentals of thermodynamics, including equations of state, laws of thermodynamics, and entropy. Principles and methods of temperature measurement, calorimetry and heat transfer. Notes: This course is crosslisted with PHYS 467. Credit at the 600-level requires additional work.

PHYS 668 - Statistical Mechanics  Credits 3
Principles and applications of statistical mechanics. Quantum statistics of ideal gas and simple solids. Transport theory, irreversible processes and fluctuations. Notes: This course is crosslisted with PHYS 668. Credit at the 600-level requires additional work.

PHYS 681 - Quantum Mechanics I  Credits 3
Introduction to the Schroedinger Equation and the interpretation of its solutions, the uncertainty principles, one-dimensional problems, harmonic oscillator, angular momentum, the hydrogen atom. Notes: This course is crosslisted with PHYS 481. Credit at the 600-level requires additional work.

PHYS 682 - Quantum Mechanics II  Credits 3
Introduction to the matrix formulation of quantum mechanics, spin, coupling of angular momenta and applications. Time dependent perturbation theory and approximation methods and techniques discussed. Notes: This course is crosslisted with PHYS 482. Credit at the 600-level requires additional work.

PHYS 683 - Special Topics in Physics  Credits 3
Special topics in physics such as, but not limited to, relativity, plasma physics, hydrodynamics, and particle physics. Notes: This course is crosslisted with PHYS 483. Credit at the 600-level requires additional work.

PHYS 685 - Condensed Matter Physics  Credits 3
Properties of condensed matters and their applications in materials science. Structures of classical and quantum liquids. Correlations in lower dimensional systems. Localization and magnetism. Superconductivity and superfluidity. Polymers and liquid crystals. Notes: This course is crosslisted with PHYS 485. Credit at the 600-level requires additional work.

PHYS 700 - Mathematical Physics I  Credits 3
Reviews and introduces various specific mathematical functions and techniques basic to the study of physics.

PHYS 701 - Mathematical Physics II  Credits 3
Reviews and introduces various specific mathematical functions and techniques basic to the study of physics.

PHYS 702 - Classical Mechanics I  Credits 3
Newtonian mechanics from an advanced point of view. Variational principles. Lagrange’s and Hamilton’s equations, central forces, rigid body motion, canonical transformations, Hamilton-Jacobi theory, small oscillations.

PHYS 707 - Condensed Matter Theory I  Credits 3
Comparison of different band structure calculation methods. Local-density approximation. Relation of structural, transport, and optical properties to electronic structure. Properties of metals, insulators and semiconductors. Quantum theory of magnetism. Prerequisites: PHYS 482/682, PHYS 483/683 and graduate standing.

PHYS 708 - Condensed Matter Theory II  Credits 3

PHYS 711 - Electromagnetic Theory I  Credits 3

PHYS 712 - Electromagnetic Theory II  Credits 3

PHYS 721 - Quantum Theory I  Credits 3

PHYS 722 - Quantum Theory II  Credits 3

PHYS 723 - Quantum Optics  Credits 3

PHYS 724 - Laser Applications: Interaction with Matter  Credits 3
Laser principles. Introduction to laser spectroscopy, isotope separation, and trace element analysis. Laser induced fusion. Laser induced plasmas and their radiation. Prerequisites: Graduate standing or consent of instructor.

PHYS 731 - Statistical Physics I  Credits 3
Liouville’s theorem, ensembles, Boltzmann and Gibbs methods. Non-ideal gases, cluster expansions, theory of condensation. Prerequisites: PHYS 467, 468 and graduate standing.

PHYS 771 - Advanced Topics in Experimental and Theoretical Physics  Credits 3
Consists of lectures dealing with experimental and theoretical aspects of one of the fields listed. a) Electrodynamics. b) Fluid mechanics. c) Plasma physics. d) Quantum theory. e) Nuclear physics. f) Atomic and molecular physics. g) Electron and ion physics. h) Low-temperature physics. i) Solid and/ or liquid state. k) Cosmic rays. l) Relativity. m) Elementary particles. p) Astrophysics. r) Atmospheric Physics. s) Geophysics. t) Applied Optics. Notes: May be repeated for credit in different fields to a maximum of 12 credits. Prerequisites: Depends on particular topic, consult instructor.

PHYS 777 - Advanced Special Problems  Credits 1 – 6
Special study of advanced topics not specifically covered in listed courses. Notes: May be repeated to a maximum of six credits. Prerequisites: Prior conference with instructor.

PHYS 796 - Graduate Seminar  Credits 1
Students required to give presentations on topics outside their Ph.D. work and to discuss the presentations. Presentations by graduate students given on a regularly scheduled basis, last about an hour, and given at the nonspecialist level. Notes: A total of three acceptable presentations in three different semesters during the six semesters of enrollment required. May be repeated to a maximum of six credits. Prerequisites: Graduate standing.
PHYS 797 - Thesis  
Credits 3 – 6  
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits will be applied to the student’s program. Grading: S/F grading only.

PHYS 799 - Doctoral Dissertation  
Credits 3 – 6  
Doctoral dissertation. Notes: May be repeated. A minimum of 18 credits required for the degree. Prerequisites: Qualifying exam and approval by department.

Water Resources Management

The Water Resources Management (WRM) graduate program is a flexible, interdisciplinary course of study leading to a master of science degree. It is a technically and scientifically based program that blends the physical aspects of the hydrologic sciences with policy and management issues. The WRM program is designed to encourage a multidisciplinary approach to learning. Students with a desire to address water-related issues enter the WRM program from a wide variety of undergraduate degree programs (e.g., natural sciences, physical sciences, engineering, business, social sciences, education, liberal arts, environmental studies, architecture, etc.). After admission to the WRM program, students then work with their faculty advising committee to design a course of study that will strengthen their understanding of the hydrologic sciences and water management, while also developing relevant technical skills.

The Water Resources Management graduate program is housed in the UNLV College of Sciences. Faculty participation in the WRM program is by application, and not restricted to the College of Sciences. Student research projects may involve faculty from other colleges on the UNLV campus, the Desert Research Institute, or scientists at government agencies (e.g., U.S. Environmental Protection Agency, the U.S. Geological Survey, Southern Nevada Water Authority, U.S. Bureau of Reclamation, etc.).

Michael Nicholl, Ph.D., Director, Graduate Coordinator

Water Resources Management Faculty

Director and Graduate Coordinator
Nicholl, Michael J.- Full Graduate Faculty Associate Professor;
B.S., Eastern Michigan University; M.S., Ph.D., University of Nevada, Reno. Rebel since 2004.

Graduate Faculty
Faculty participating in the Water Resources Management Graduate Program (WRM) are affiliated with several different colleges, departments, and centers at UNLV, and elsewhere within the Nevada System of Higher Education. Active research scientists affiliated with governmental agencies or private industry may also participate as adjunct faculty. A list of participating faculty can be found at the website of the WRM Graduate Program at http://sciences.unlv.edu/wrm.
Master of Science - Water Resources Management

Plan Description

The Water Resources Management (WRM) program in the College of Sciences at the University of Nevada, Las Vegas is a flexible, interdisciplinary course of study leading to a Master of Science degree. It is a technically and scientifically based program that blends the physical aspects of the hydrologic sciences with policy and management issues.

The WRM program is designed to encourage a multidisciplinary approach to learning. Students enter the program from a wide variety of undergraduate programs, then take classes and conduct research with faculty in the Colleges of: Sciences, Business, Urban Affairs, Engineering, and Liberal Arts at UNLV, plus the Boyd School of Law and the Desert Research Institute. Students in the WRM program also work with participating faculty from federal, state, and local government agencies.

For more information about your program including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

Applicants to the program must hold a B.S. or B.A. degree in the physical, natural or social sciences, engineering, business, management, or a related field.

1. A minimum overall undergraduate grade point average of 3.00.
2. Submission of an online application.
3. Transcripts of all college-level course work.
4. Three letters of recommendation from individuals competent to comment on the applicant’s promise as a graduate student.
5. A letter of application stating the student’s interests and goals.
6. Satisfactory scores on the Graduate Record Exam. This requirement may be waived in the case of candidates with exceptional professional experience.

Items 3-5 should be uploaded as part of the online application.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Refer to the Graduate College website for current deadlines.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track

Total Credits Required: 33

Course Requirements

Required Course – Credits: 3
Complete one of the following courses:

- WRM 706 - Research Methods in Water Resources Management
- GEOL 701 - Research Methods in Geoscience

Hydrologic Sciences Courses – Credits: 6
Complete 6 credits of advisor-approved GEOL or CEE hydrologic science courses.

Additional Science Course – Credits: 3
Complete 3 credits of advisor-approved science, mathematics or engineering courses (BIOL, CEE, CHEM, GEOL, MAT, ME, PHYS, STA prefixes).

Administrative Courses – Credits: 9
Complete 9 credits of advisor-approved management, public administration, economics, law, or political science courses (ECO, ENV, HIST, LAW, MGT, MIS, PSC, PUA prefixes).

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved BIOL, CEE, CHEM, ECO, ENV, GEOL, HIST, LAW, MAT, ME, MGT, MIS, PHYS, PSC, PUA, or STA courses.

Thesis – Credits: 6

- WRM 798 - Thesis

Degree Requirements

1. Completion of a minimum of 33 credit hours with a minimum GPA of 3.00.
2. A minimum of 15 credit hours must be in 700-level courses.
3. Because of the interdisciplinary nature of the Water Resources Management Graduate Program, students are encouraged to select courses from different departments that would strengthen their background and help them to achieve their research and educational goals.
4. In consultation with his/her advisor, a student will organize a thesis committee of at least three members of the WRM Graduate Faculty. In addition, a fourth member from outside the WRM Graduate Faculty, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and WRM Program Director’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Students must develop their course work program with the consent of the advisor and the student’s advisory committee. Courses from different colleges and departments may be incorporated into the student’s program of study. Students should consult the listings of individual departments.

6. There will be a final examination that will include a comprehensive oral examination.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Non-Thesis Track

Total Required Credits: 36

Course Requirements

Required Course – Credits: 3
Complete one of the following courses:
- WRM 706 - Research Methods in Water Resources Management
- GEOL 701 - Research Methods in Geoscience

Hydrologic Sciences Courses – Credits: 6
Complete 6 credits of advisor-approved GEOL or CEE hydrologic science courses.

Additional Science Courses – Credits: 6
Complete 6 credits of advisor-approved science, mathematics or engineering courses (BIOL, CEE, CHEM, GEOL, MAT, ME, PHYS, STA prefixes).

Administrative Courses – Credits: 12
Complete 12 credits of advisor-approved management, public administration, economics, law, or political science courses (ECO, ENV, HIST, LAW, MGT, MIS, PSC, PUA prefixes).

Elective Courses – Credits: 6
Complete 6 credits of advisor-approved BIOL, CEE, CHEM, ECO, ENV, GEOL, HIST, LAW, MAT, ME, MGT, MIS, PHYS, PSC, PUA, or STA courses.

Professional Paper – Credits: 3
- WRM 796 - Professional Paper in WRM

Degree Requirements

1. Completion of a minimum of 36 credit hours with a minimum GPA of 3.00.

2. A minimum of 15 credit hours must be in 700-level courses.

3. Because of the interdisciplinary nature of the Water Resources Management Graduate Program, students are encouraged to select courses from different departments that would strengthen their background and help them to achieve their research and educational goals.

4. In consultation with his/her advisor, a student will organize a committee of at least three members of the WRM Graduate Faculty. In addition, a fourth member from outside the WRM Graduate Faculty, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and WRM Program Director’s discretion. Please see Graduate College policy for committee appointment guidelines.

5. Students must develop their course work program with the consent of the advisor and the student’s advisory committee. Courses from different colleges and departments may be incorporated into the student’s program of study. Students should consult the listings of individual departments.

6. There will be a final examination that will include a comprehensive oral examination.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must successfully complete and defend a professional paper.

Plan Graduation Requirements

Refer to your subplan for Graduation Requirements.
WRM 706 - Research Methods in Water Resources Management Credits 3
Discussion of the processes of scientific research and research design as applied to modern water resources management. Includes scientific approaches to field and laboratory research, research and professional ethics, writing, and public presentation. Model thesis prospectus and grant proposals prepared. Prerequisites: Graduate standing or consent of instructor.

WRM 791 - Independent Study Credits 1 – 3
Review of recent literature in a specialized area related to water resources. Notes: May be repeated to a maximum of four credits. Prerequisites: Consent of instructor.

WRM 796 - Professional Paper in WRM Credits 1-6
Professional paper preparation, including review of literature or similar research effort. Notes: May be repeated to a maximum of three credits. Not permitted for students pursuing the M.S. Thesis option. Prerequisites: Consent of instructor.

WRM 798 - Thesis Credits 1 – 3
Enrollment by consent of research director only. Notes: May be repeated for credit with cumulative maximum of six credits allowed toward degree program. Grading: S/F grading only.
Greenspun College of Urban Affairs

The world is experiencing its highest rate of urbanization. As a result, cities are experiencing rapid change, challenges, and opportunities. There is a need for safe, resilient communities, effective government and policy, civil discourse, effective and ethical journalism, healthy families, and effective urban support structures for behavioral and/or mental health needs. Graduate students in the Greenspun College of Urban Affairs are encouraged to learn about urban contexts through their coursework, research, and practice. By learning through cutting edge curriculum, engaging in community partnerships, and interacting with a high quality faculty, students have the opportunity to develop solutions for individuals, families, and urban communities.

Robert Ulmer, Dean, Greenspun College of Urban Affairs

The Greenspun College of Urban Affairs currently houses*:

Ph.D. Programs
• Criminology and Criminal Justice
• Public Affairs
• Public Policy
M.S. Degree
• Emergency and Crisis Management
M.A. Degrees
• Communication Studies
• Criminal Justice
• Journalism and Media Studies
• Urban Leadership
Graduate Certificate Programs
• Emergency Crisis Management Cybersecurity
• Non-profit Management
• Public Management
Professional Masters' Degrees
• Public Administration (MPA)
• Social Work (MSW)
Dual Master's and Professional Degree
• Master of Social Work (MSW) and Juris Doctorate (J.D.) Institute
• MGM Resorts Public Policy Institute

*Please contact respective program graduate coordinators regarding current degree and curriculum offerings

Communication Studies

The Department of Communication Studies offers the master of arts degree in communication studies with emphases in interpersonal and rhetorical studies. Courses of study are designed around two career “tracks.” For students with a non-academic career orientation — including such diverse arenas as politics, education, law, public service, the ministry, and media relations — we offer a track in Community Engagement. For those wishing to continue their academic orientation in doctoral programs we offer our Advanced Communication Research track.

Because each student’s goals are unique, the curriculum allows flexibility in developing individual degree programs. Such development aims to balance the communication discipline’s varied traditions in theoretical, historical, and applied research, with particular attention to the changing communication culture of the twenty-first century.

Michael Lane Bruner, Ph.D., Chair
Donovan Conley, Ph.D., Graduate Coordinator

Communication Studies Faculty

Chair
Bruner, Michael Professor; M.A., Louisiana State University; Ph.D., University of Washington. Rebel since 2017.

Graduate Coordinator
Guthrie, Jennifer -- Full Graduate Faculty Associate Professor; B.A., University of Missouri-Kansas City; M.A., Ph.D., University of Kansas. Rebel since 2013.

Graduate Faculty
Bloomfield, Emma -- Full Graduate Faculty Assistant Professor; B.A. Northeastern University; M.A., Ph.D., University of Southern California. Rebel since 2016.

Conley, Donovan S. - Full Graduate Faculty Associate Professor; B.A., University of Lethbridge, Alberta; M.A., Ph.D., University of Illinois, Urbana-Champaign. Rebel since 2004.

Emmers-Sommer, Tara. - Full Graduate Faculty Professor and Associate Dean of Research and Graduate Education, Greenspun College of Urban Affairs; B.A., M.A., University of Wisconsin, Milwaukee; Ph.D. Ohio University. Rebel since 2006.

Engstrom, Erika - Full Graduate Faculty Professor; B.A., M.A., University of Central Florida; Ph.D., University of Florida. Rebel since 1991.

Flores, Carlos Assistant Faculty in Residence; B.A., M.A., California State University, Northridge; Ph.D., Arizona State University. Rebel Since 2018.

McManus, Tara - Full Graduate Faculty Associate Professor; B.A., University of Kentucky; M.A., University of Cincinnati; Ph.D., Pennsylvania State University. Rebel since 2008.

Pennington, Natalie – Full Graduate Faculty Assistant Professor; B.A., Missouri State University; M.A., Kansas State University; Ph.D., University of Kansas. Rebel since 2018.

Rice, Rebecca -- Full Graduate Faculty Assistant Professor; B.A., Northern Arizona University; M.A., University of Montana; Ph.D., University of Colorado-Boulder. Rebel since 2019.

Thompson, Jacob - Full Graduate Faculty Faculty in Residence; Sanford J. Bernan Debte Forum, Faculty in Residence; B.A., Wayne State University; M.A., Ph.D., University of Kansas. Rebel since 2007.
Professors Emeriti
Blythin, Evan Emeritus Associate Professor; A.A., Palomar Junior College; B.A., M.A., San Diego State University; Ph.D., University of Colorado. UNLV Emeritus 1998.

Henry, David - Full Graduate Faculty Emeritus Professor; B.A., University of California, Berkeley; M.A., University of California, Davis; Ph.D., Indiana University. Rebel since 1998.

Jensen, Richard Jay Professor and Senior Advisor to the President; B.S., Weber State College; M.A., University of Arizona; Ph.D., Indiana University. UNLV Emeritus 1992.

Watson, Martha Emeritus Professor; B.A., Rice University; M.A., Ph.D., University of Texas at Austin. UNLV Emeritus 1997.

Master of Arts - Communication Studies

Plan Description
The Master of Arts program in the Department of Communication Studies brings together scholars interested in the various aspects of interpersonal communication and rhetorical studies. The program prepares you for careers in the private sector, government agencies, or further educational opportunities. Recent graduates have been accepted to top doctoral programs throughout the country.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Students have the choice of doing original research leading to the writing of a thesis or completing a program of course work leading to a comprehensive examination. Programs of study are designed to meet the student’s individual, professional or personal objectives. Although an undergraduate degree in communication is not required for admission to the program, a student without a background in communication may be required to complete course work in addition to the minimum requirements.

- The Department of Communication Studies accepts applicants only in the fall semester of each year.
- Review of applications starts January 15.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track
Total Credits Required: 36

Course Requirements
All students enrolled in the program are required to complete core courses in their first year.

Core Courses – Credits: 12
- COM 710 - Survey of Communication Studies
- COM 711 - Rhetorical-Critical Research Methods
- COM 712 - Empirical Research Methods
- COM 730 - Theories of Communication

Elective Courses – Credits: 18
Complete 18 credits of electives. A maximum of 6 credits can be taken outside the Department of Communication Studies.

Thesis – Credits: 6
- COM 797 - Thesis

Degree Requirements
1. A student must complete a minimum of 30 credit hours of approved course work plus six hours of thesis credits. The classes may include six credits outside the Department of Communication Studies. An oral examination on the thesis is required.

2. Graduate teaching assistants are required to take COM 725 – College Teaching in Communication during their first semester.

3. The Graduate Studies Coordinator will be the advisor for all entering students. Before completing 16 credit hours, the student should select a permanent advisor. The permanent advisor will work with the student through the completion of the program. The student’s advisor must approve all course work.

4. Acceptable course work is defined as any class in which a student receives a grade of B- or higher. Any required course graded C+ or below will not be included in the candidate’s degree program.

5. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
6. The defense of the thesis may result in any of three decisions: pass, pass with further edits, no pass. The most common of these three results is the pass with further edits decision. These edits may range from simple editing of style, grammatical errors, and so forth, to extensive rewrites of entire sections of the thesis. The committee may decide to either “sign off” on the thesis or not at the time of this decision depending on the extent of the edits. The committee may also want to see the final edits or not. Signing off on the thesis means that the committee agrees to sign the appropriate forms for the completion of the thesis. Again, they may do that at the time of the defense, or at a later time after edits are completed.

   a. If the thesis passes outright, then the student will have no further edits except those that the Graduate College may request. The committee signs off on the thesis at the time of the defense.

   b. In the event that the student’s thesis is not passed, the student will, at that time be severed from the program and will not be granted a Master of Arts degree.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 2 Requirements: Examination Track

Total Credits Required: 36

Course Requirements

All students enrolled in the program are required to complete core courses in their first year.

Core Courses – Credits: 12

- COM 710 - Survey of Communication Studies
- COM 711 - Rhetorical-Critical Research Methods
- COM 712 - Empirical Research Methods
- COM 730 - Theories of Communication

Elective Courses – Credits: 24

Complete 24 credits of electives. A maximum of 6 credits can be taken outside the Department of Communication Studies.

Degree Requirements

1. A student must complete a minimum of 36 credit hours of approved course work. No more than six hours may be taken outside the Department of Communication Studies.

2. Graduate teaching assistants are required to take COM 725 – College Teaching in Communication during their first semester.

3. Students must pass a comprehensive written examination. The examination lasts eight hours and is given over two consecutive days. A Graduate Education Portfolio is also required of exam track students (the specifics of the portfolio are outlined in the Department of Communication Studies Graduate Handbook, which is available upon request).

4. The Graduate Studies Coordinator will be the advisor for all entering students. Before completing 16 credit hours, the student should select a permanent advisor. The permanent advisor will work with the student through the completion of the program. The student’s advisor must approve all course work.

5. Acceptable course work is defined as any class in which a student receives a grade of B- or higher. Any required course graded C+ or below will not be included in the candidate’s degree program.

6. The oral defense of the examination must take place within one week of completing the written examination.

   a. In the case where a student receives a Pass with Conditions involving a minor rewrite, these rewrites must be completed within two weeks of notification. Examination Committee members will again have the same time limits as specified above.

   b. A student must retake a failed examination within one year and successfully pass it to receive his or her degree. A second failure on the examination automatically results in the student’s termination from the program.

Subplan 3 Requirements: Scholarly Research Project Track

Total Credits Required: 36

Course Requirements
All students enrolled in the program are required to complete core courses in their first year.

Core Courses – Credits: 12
- COM 710 - Survey of Communication Studies
- COM 711 - Rhetorical-Critical Research Methods
- COM 712 - Empirical Research Methods
- COM 730 - Theories of Communication

Elective Courses – Credits: 24
Complete 24 credits of electives. A maximum of 6 credits can be taken outside the Department of Communication Studies.

Degree Requirements
1. The Scholarly Research Project Track entails the completion of 36 credits of course work, construction of a Graduate Education Portfolio, and development of an original research project for submission to a scholarly meeting and/or scholarly journal.
2. Graduate teaching assistants are required to take COM 725 – College Teaching in Communication during their first semester.
3. Students select a four-person committee: three departmental faculty, one of whom serves as chair, and one Graduate College representative. Students prepare and defend a prospectus by September 15 of the second year of their program, work primarily with the committee chair through development of the paper, and meet with the full committee by April 1 for a formal presentation and defense of the project.
4. The Graduate Studies Coordinator will be the advisor for all entering students. Before completing 16 credit hours, the student should select a permanent advisor. The permanent advisor will work with the student through the completion of the program. The student’s advisor must approve all course work.
5. Acceptable course work is defined as any class in which a student receives a grade of B- or higher. Any required course graded C+ or below will not be included in the candidate’s degree program.
6. Scholarly Research Projects may be assessed as Pass, Pass with revisions, or Not Pass. Revisions may include—but are not limited to—minor stylistic changes, investigating Committee members’ questions about substantive claims, revising sections of the argument, and so on. In some cases Committee members may want to see the final revisions; in other instances they may entrust the Chair to act on the Committee’s behalf. In both cases, and when the initial judgment is Pass, Committee members will sign the required Graduate College documents the day of the Presentation. In cases that require more elaborate revision, or when a performance is assessed as Not Pass, the Committee will delineate the necessary course/s of action before the student leaves the Defense.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully complete and defend a scholarly research paper.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

COM 601 - The Rhetoric of Women’s Rights, 1832-1920 Credits 3
Examination of the rhetorical campaign for woman suffrage and women’s rights from the early nineteenth century up to passage of the 19th amendment to the U.S. Constitution in 1920. Emphasis on identifying, understanding, and evaluating major rhetorical strategies in their historical context. Notes: This course is crosslisted with COM 401. Credit at the 600-level requires additional work. Prerequisites: Graduate standing.

COM 603 - Public Communication Credits 3
Examination of public communication in terms of form, context, people, messages, and delivery. Particular focus on the ethics of public communication. Notes: This course is crosslisted with COM 403. Credit at the 600-level requires additional work.

COM 604 - Principles of Persuasion Credits 3
Examination of the principles involved in influencing groups and individuals. Notes: This course is crosslisted with COM 404. Credit at the 600-level requires additional work.

COM 607 - Communication Between the Sexes Credits 3
Introduction to gender research in communication, studying ways in which language, interpersonal communication, the media, and various social institutions influence conceptions of gender. Notes: This course is crosslisted with COM 407. Credit at the 600-level requires additional work.

COM 610 - Advanced Topics in Relational Communication Credits 3
This course will examine contemporary topics and processes relevant to communication in personal relationships. To improve understanding of the communication process and its implications for the development, maintenance, and termination of close personal relationships, current theory and research will be incorporated. The course will enhance critical thinking and analytical skills. Notes: This course is crosslisted with COM 410. Credit at the 600-level requires additional work.

COM 613 - Argumentation Credits 3
Study of advanced argumentation theories and implementation of argumentation practice. Notes: This course is crosslisted with COM 413. Credit at the 600-level requires additional work.

COM 614 - Famous Speeches Credits 3
Study of the role of public address in American history. Emphasis on speeches which had a significant effect on American history. Notes: This course is crosslisted with COM 414. Credit at the 600-level requires additional work. Prerequisites: Graduate Standing.

COM 615 - Marital & Family Communication Credits 3
This course introduces graduate students to communication processes that occur in the context of marital and family relationships. We will examine definitions of the family, the roles of family members, various types of families that comprise modern society, and a number of current issues that affect families. Students will also become more familiar with communication theory and research both at the disciplinary...
level but also in the particular area of family communication.

Notes: This course is crosslisted with COM 415. Credit at the 600-level requires additional work.

COM 725 - Rhetoric and Public Memory Credits 3
This course explores how we use rhetoric to construct, circulate, and contest shared representations of the past. Students will gain an understanding of the foundational concepts in memory studies through class readings and discussions, and they will gain skills of critical, rhetorical analysis by applying these concepts in writing projects. Notes: May not be repeated for credit. This course is crosslisted with COM 425. Credit at the 600-level requires additional work. Grading: Letter Grade

COM 632 - Qualitative Research Methods in Communication Credits 3
Survey of qualitative research methods and analysis in communication including interpretive approaches, interviews, focus groups, and fieldwork. Notes: This course is crosslisted with COM 432. Coursework at the 600-level requires additional work. Prerequisites: Admission to the MA Communication Studies program.

COM 634 - Conflict Management Credits 3
Examination of various types and sources of conflict in interpersonal relationships, the management and resolution of these conflicts through various decision-making models. Practical application of theory emphasized in various classroom exercises. Notes: This course is crosslisted with COM 434. Credit at the 600-level requires additional work.

COM 641 - Rhetoric of Dissent Credits 3
Description and analysis of public discourse by agitators and those opposed to agitation. Focus on significant movements for change in recent American history. Notes: This course is crosslisted with COM 441. Credit at the 600-level requires additional work.

COM 682 - Security Discourse Credits 3
In a globalized world the ways in which national security is discussed profoundly affects the public life of all individuals. This class examines the language, arguments and practices related to security policy, including but not limited to topics such as the rhetorics of American foreign policy, war, terrorism and nuclear arms. Notes: This course is crosslisted with COM 482. Credit at the 600-level requires additional work.

COM 684 - Political Communication Credits 3
Analysis of historical and contemporary political discourse. Addresses such topics as presidential rhetoric, electoral campaigns, ethics in political culture, institutional leadership, publics and public opinion, meditated political speech, legislative debates, political socialization. Notes: This course is crosslisted with COM 484. Credit at the 600-level requires additional work.

COM 710 - Survey of Communication Studies Credits 3
Survey of communication disciplines and their interrelationships; past, contemporary, and emerging issues; appropriate research topics, questions, methods, and style.

COM 711 - Rhetorical-Critical Research Methods Credits 3
Methods of describing, analyzing, interpreting, and judging public discourse. Study critical theory and practice. Research and write original critical essays.

COM 712 - Empirical Research Methods Credits 3
Fundamentals of scientific philosophy, research design, and data analysis; writing and critiquing research reports.

COM 725 - College Teaching in Communication Credits 3
Discussion of theory and practice in the teaching of communication in college, particularly entry-level courses. Notes: Required of all graduate teaching assistants. Prerequisites: Graduate standing.

COM 730 - Theories of Communication Credits 3
Exploration and explanation of communication phenomena. Survey of theoretical ideas, nature of theory in general, major communication theories and theories relevant to communication, and examines purpose of theory in communication research. Prerequisites: Graduate standing.

COM 741 - Social Movements as Rhetorical Form Credits 3
Rhetorical approaches to the study of social movements, examining communicative processes and symbolic action involved in social change. Focuses on theoretical and methodological issues in movement studies as well as on rhetorical documents and practices of several social movements. Prerequisites: Consent of instructor.

COM 781 - Seminar in Argumentation Credits 3
Examines field of argument from its roots in classical Aristotelian rationalism to modern practical reasoning perspectives. Argumentation in interpersonal and public contexts emphasized. Prerequisites: Consent of instructor.

COM 789 - Selected Topics in Communication Credits 3
Content varies with current developments in communication theory. Notes: May be repeated to a maximum of six credits with instructor’s permission. Prerequisites: Consent of instructor.

COM 793 - Independent Study Credits 1 – 3
Supervised study and practical experience in subjects and projects determined in consultation with a faculty member. Students wishing to take this course must consult with the faculty member prior to registration. Notes: May be repeated to a maximum of three credits.

COM 794 - Special Readings Credits 3
Content dependent upon the instructor’s interest and expertise, as well as student interest and requirements.

COM 797 - Thesis Credits 3
This course is approved for use in graduate programs for Master of
Criminal Justice

The Department of Criminal Justice offers three graduate program degrees: a Ph.D. in Criminology and Criminal Justice, a Master of Arts in Criminal Justice, and a Master of Science in Emergency and Crisis Management. The Department of Criminal Justice also offers a Graduate Certificate in Emergency Crisis Management Cybersecurity.

The Criminology and Criminal Justice Ph.D. provides an interdisciplinary, research oriented perspective for advanced understanding of the nature and causes of crime, consequences of crime and crime control, society’s reaction to these phenomena, as well as the organizations that are designed to deter, apprehend, prosecute, and punish criminal offenders. The program prepares students for research, teaching and professional employment at universities, research institutes, and criminal justice related agencies, including, governmental agencies, related non-profit agencies, public policy institutes, or the private sector. The program offers a post-bachelor’s track and a post-master’s track.

The Criminal Justice Master of Arts degree is a broad-based graduate program. The program addresses issues of crime and criminal justice within an analytical framework and emphasizes theory and research and their implications for social policy. The curriculum is grounded in the social and behavioral sciences and in legal approaches to crime and social control. It draws from contemporary research and theoretical developments across a spectrum of academic disciplines. There are two M.A. degree options. The traditional master of arts degree is designed to prepare students for doctoral studies in the field and in related areas of the social and behavioral sciences. Those who obtain this degree may also assume teaching positions at the community college level. The professional master’s degree is designed to serve the needs of professionals currently working in justice-related agencies by providing the knowledge and skills to enhance their performance in current positions and/or prepare them for career advancement.

The Emergency and Crisis Management Master of Science program prepares students for success in the rapidly growing emergency management profession. The program is designed for individuals to develop skills that enable them to prepare for, respond to, and recover from natural and human-created emergencies and crises. Faculty who teach in the program have backgrounds working in high-level positions at the Department of Homeland Security, the Federal Emergency Management Program, the Federal Bureau of Investigation, as well as many state and municipal agencies. The program also capitalizes on our location in the dynamic city of Las Vegas and provides opportunities for students to study Tourism Security and Crowd Management issues with our internationally recognized academic faculty, and our strong connections to the local public safety and hospitality industry.

The Graduate Certificate in Emergency Management Cybersecurity is designed to prepare decision makers to address the growing challenges of managing effective cybersecurity practices and mitigating threats within public and private organizations, including small businesses. The knowledge and skills gained in this certificate program are intended to be applied to interdisciplinary business practices with high regulatory frameworks. Students will learn to develop business continuity and recovery strategies that identify mission essential functions and time-critical tasks, and will understand legal ramifications relevant to cybersecurity. The program is designed for individuals who do not have technological backgrounds, but who must still prepare for, and respond to, the ever-present danger of cyber-attacks.

Joel Lieberman, Ph.D., Chair
Tamara D. Herold, Ph.D., Graduate Coordinator
Dory Mizrahi, Ph.D., Graduate Coordinator

Criminal Justice Faculty

Chair
Lieberman, Joel D. - Full Graduate Faculty Professor; B.A., State University of New York at Stony Brook; M.A., Ph.D., University of Arizona. Rebel since 1997.

Graduate Coordinator
Herold, Tamara D. - Full Graduate Faculty Associate Professor; B.A., M.A., California State University, San Bernardino; Ph.D., University of Cincinnati. Rebel since 2008.

Graduate Faculty
Hangawatte, Karu Assistant Professor; LL.B. University of Ceylon; M.A., Ph.D., University of New York at Albany. Rebel since 1984.
Kennedy, M. Alexis - Full Graduate Faculty Associate Professor; B.A., University of Toronto; LL.B., University of Manitoba; M.A., Ph.D., University of British Columbia. Rebel since 2005.
Lu, Hong - Full Graduate Faculty Professor; LL.B., Law School, Fudan University; M.A., Indiana University; Ph.D., Arizona State University. Rebel since 1998.
Miethe, Terance D. - Full Graduate Faculty Professor; B.A., Western Washington State College; M.A., Western Washington University; Ph.D., Washington State University. Rebel since 1993.
Park, Seong - Full Graduate Faculty Assistant Professor; B.A., Korean National Police University, M.A., Sam Houston State University, M.S., University of Cincinnati, Ph.D., University of Cincinnati. Rebel since 2016.
Pinchevsky, Gillian - Full Graduate Faculty Assistant Professor; B.A., University of Florida, Gainesville; M.A., University of Maryland, College Park; Ph.D., University of South Carolina, Columbia. Rebel since 2013.
Rorie, Melissa L. - Full Graduate Faculty Professor; B.A., California State at Los Angeles; M.A., Memphis State University; Ph.D., Southern Illinois University at Carbondale. Rebel since 2013.
Shelden, Randall G. - Full Graduate Faculty Professor; B.A., California State at Los Angeles; M.A., Memphis State University; Ph.D., Southern Illinois University at Carbondale. Rebel since 1977.
Sousa, William H. - Full Graduate Faculty Associate Professor; B.A., Stonehill College; M.S., Northeastern University; Ph.D., Rutgers University. Rebel since 2004.
Troshynski, Emily I. - Full Graduate Faculty Assistant Professor; B.A., University of St. Thomas; M.Sc., London School of Economics and Political Science; Ph.D., University of California,
Graduate Certificate in Emergency Crisis Management Cybersecurity

Master of Science - Emergency and Crisis Management

Graduate Certificate in Emergency Crisis Management Cybersecurity

Plan Description

The Graduate Certificate in Emergency Management Cybersecurity is an online certificate offered by the Department of Criminal Justice. The certificate is designed to prepare decision makers to address the growing challenges of managing effective cybersecurity practices and mitigating threats within public and private organizations, including small businesses. The knowledge and skills gained in this certificate program are intended to be applied to interdisciplinary business practices with high regulatory frameworks. Students will learn to develop business continuity and recovery strategies that identify mission essential functions and time-critical tasks, and will understand legal ramifications relevant to cybersecurity. The program is designed for individuals who do not have technological backgrounds, but who must still prepare for, and respond to, the ever-present danger of cyber-attacks.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

1. A baccalaureate degree from a regionally accredited college or university.
2. A current resume which should indicate professional experience in the field of policy making or IT management

All the above should be submitted online through the Graduate College admissions application.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Total Credits Required: 12

Course Requirements

Required Courses – Credits: 12

- ECEM 702 - Cyber Law - Digital Intellectual Property & Privacy
- ECEM 710 - Crisis and Emergency Management
- ECEM 735 - Concept Implementation & Cyber Lab

Certificate Requirements

Complete all required courses, 12 credits total.

Plan Certificate Completion Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. Attend the summer cohort.

Doctor of Philosophy - Criminology and Criminal Justice

Plan Description

The Criminology and Criminal Justice Ph.D. provides an interdisciplinary, research-oriented perspective for advanced understanding of the nature and causes of crime, consequences of crime and crime control, and society’s reaction to these phenomena. Students are trained to conduct research and teach at the undergraduate and graduate levels in a wide range of criminal justice areas. In addition, students are trained to assume advanced administrative positions in criminal justice agencies, related non-profit agencies, public policy institutes, or the private sector.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admissions

See Plan Admissions requirements below:

Admissions 1: Post-Bachelor’s Track

1. A bachelor’s degree from an accredited institution with at least 18 hours of criminal justice-related courses
2. A final minimum cumulative undergraduate GPA of 3.0 on a 4.0 scale - competitive GPAs are expected to be 3.5 or higher
3. Submission of Verbal, Quantitative, and Writing Graduate Record Exam (GRE) scores - competitive minimum GRE scores are 153 for Quantitative Reasoning, 155 for Verbal Reasoning, and 4.5 for Analytical Writing
4. Three letters of recommendation that address the applicant’s character, work ethic, and potential to successfully complete a doctoral program - letters from faculty or academic supervisors are preferred
5. One academic writing sample
6. A personal statement of approximately 500 to 1,000 words describing personal and academic background, research interests, professional goals, a primary faculty member with whom the applicant wishes to work, and any other factors that suggest the applicant will perform well in the program
7. A personal interview with program faculty members if selected as a finalist
8. The admissions process requires submitting all information and materials through the UNLV Graduate College Online Application. See the Criminal Justice Department website for more details.
9. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Application deadlines
Applications available on the UNLV Graduate College website.

Admissions 2: Post-Master’s Track
1. A master’s degree in criminal justice from an accredited institution - exceptions may be made in exceptional cases if the candidate holds a master’s degree in a criminal justice-related discipline
2. A final minimum cumulative graduate GPA of 3.5 on a 4.0 scale - competitive GPAs are expected to be 3.7 or higher
3. Submission of Verbal, Quantitative, and Writing Graduate Record Exam (GRE) scores - competitive minimum GRE scores are 153 for Quantitative Reasoning, 155 for Verbal Reasoning, and 4.5 for Analytical Writing
4. Three letters of recommendation that address the applicant’s character, work ethic, and potential to successfully complete a doctoral program - letters from faculty or academic supervisors are preferred
5. A master’s thesis and/or at least two original research papers written solely by the applicant - all submissions must be in English
6. A personal statement of approximately 500 to 1,000 words describing personal and academic background, research interests, professional goals, a primary faculty member with whom the applicant wishes to work, and any other factors that suggest the applicant will perform well in the program
7. A personal interview with program faculty members if selected as a finalist
8. The admissions process requires submitting all information and materials through the UNLV Graduate College Online Application. See the Criminal Justice Department website for more details.
9. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

See Subplan Requirements below:
Subplan 1 Requirements: Post-Bachelor’s Track
Subplan 2 Requirements: Post-Master’s Track

Subplan 1 Requirements: Post-Bachelor’s Track
Total Credits Required: 90

Course Requirements
Required Courses - Credits: 30
- CRJ 700 - Proseminar in Criminal Justice
- CRJ 701 - Proseminar on Theory
- CRJ 702 - Proseminar on Research Methods
- CRJ 703 - Proseminar on Statistics
- CRJ 704 - Proseminar on Law and Social Control
- CRJ 705 - Proseminar on the Administration of Justice
- CRJ 714 - Proseminar on Law and Criminal Justice Theory
- CRJ 715 - Criminal Justice Policy
- CRJ 719 - Proseminar on Advanced Statistics
- CRJ 724 - Applied Research in Criminal Justice

Thesis/ Comprehensive Exam - Credits 6
- CRJ 797 - Master’s Thesis in Criminal Justice
or
- CRJ 796 - Comprehensive Examination

After successfully completing the requirements above, students are eligible to earn the Master of Arts – Criminal Justice.

Additional Required Courses – Credits: 6
- CRJ 733 - Criminal Justice Teaching Practicum
- CRJ 798 - Applied Project in Criminal Justice

Elective Courses - Credits: 24
Complete 24 credits of any advisor approved 600- or 700-level courses. A maximum of 9 elective credits can be earned by taking CRJ 716 and/or CRJ 799 courses.

Doctoral Comprehensive Exam - Credits: 6
- CRJ 794 - Doctoral Comprehensive Examination

Dissertation - Credits: 18
- CRJ 795 - Dissertation

Degree Requirements
1. All core courses must be completed with a grade of “B” or better. A failed course, proficiency examination, or comprehensive examination can be
repeated only once. Failed proficiency examinations or comprehensive examinations must be repeated on
the next available departmental test date.

2. Students will be placed on academic probation if:
   1. A grade lower than a B is earned in two or
      more classes
   2. The student’s overall GPA drops below a
      cumulative 3.20 average
   3. The student fails any proficiency or
      comprehensive examination

3. Students are expected to follow the curriculum plan
   (outlined above) for their specific track. Students who
   deviate from the curriculum plan track must adhere to
   maximum time permitted for degree completion.

4. Maximum time permitted for degree completion:
   1. Post-Bachelor’s Track: 8 academic years
   2. Students may petition the department
to extend these time requirements in
   exceptional cases

Graduation Requirements

1. The student must submit all required forms to the
   Graduate College and then apply for graduation up
   to two semesters prior to completing his/her degree
   requirements for both the Master’s and Doctoral
   portions of the program.

2. The student must submit and successfully defend
   his/her thesis or comprehensive exam by the posted
   deadline. The thesis defense must be advertised and
   is open to the public.

3. If a thesis is completed, the student must submit his/
   her approved, properly formatted document to the
   Graduate College, and submit the approved electronic
   version to ProQuest by the posted deadline.

4. The student must submit and successfully defend his/
   her dissertation by the posted deadline. The defense
   must be advertised and is open to the public.

5. Student must submit his/her approved, properly
   formatted dissertation to the Graduate College, and
   submit the approved electronic version to ProQuest
   by the posted deadline.

Subplan 2 Requirements: Post-Masters Track

Total Credits Required: 72

Course Requirements

Required Courses - Credits: 18
- CRJ 714 - Proseminar on Law and Criminal Justice Theory
- CRJ 715 - Criminal Justice Policy
- CRJ 719 - Proseminar on Advanced Statistics
- CRJ 724 - Applied Research in Criminal Justice
- CRJ 733 - Criminal Justice Teaching Practicum
- CRJ 798 - Applied Project in Criminal Justice

Elective Courses - Credits: 30
Complete 30 credits of any advisor approved 600- or 700-level
courses. A maximum of 9 elective credits can be earned by
taking CRJ 716 and/or CRJ 799 courses.

Comprehensive Exam - Credits: 6
- CRJ 794 - Doctoral Comprehensive Examination

Dissertation - Credits: 18
- CRJ 795 - Dissertation

Degree Requirements

1. All core courses must be completed with a grade
   of “B” or better. A failed course, proficiency
   examination, or comprehensive examination can be
   repeated only once. Failed proficiency examinations
   or comprehensive examinations must be repeated on
   the next available departmental test date.

2. Students will be placed on academic probation if:
   1. A grade lower than a B is earned in two or
      more classes
   2. The student’s overall GPA drops below a
      cumulative 3.20 average
   3. The student fails any proficiency or
      comprehensive examination

3. Students are expected to follow the curriculum plan
   (outlined above) for their specific track. Students
   who deviate from the curriculum plan track must
   adhere to maximum time permitted for degree
   completion.

4. Maximum time permitted for degree completion:
   1. Post-Master’s Track: 6 academic years
   2. Students may petition the department
to extend these time requirements in
   exceptional cases.

Graduation Requirements

1. The student must submit all required forms to the
   Graduate College and then apply for graduation up
   to two semesters prior to completing his/her degree
   requirements.

2. The student must submit and successfully defend his/
   her dissertation by the posted deadline. The defense
   must be advertised and is open to the public.

3. Student must submit his/her approved, properly
   formatted dissertation to the Graduate College, and
   submit the approved electronic version to ProQuest
   by the posted deadline.
Plan Graduation Requirements
See Subplan for Graduation Requirements

Master of Arts - Criminal Justice

Plan Description
The Traditional Master of Arts degree program is designed to improve a student’s understanding of the nature, causes, and consequences of crime and crime control. Based on the tradition of the liberal arts, the program emphasizes the symbiotic relationship between crime and the structure of society and the interplay between criminal justice theory and practice. These relationships are explored through course work in criminological theory, law and social control, the administration of justice, and crime and public policy. By completing the requirements for this program, students will be prepared for teaching at the community college level and doctoral study in crime and criminal justice.

Designed for the full-time criminal justice professional, the Professional Master’s Degree Program in Criminal Justice provides students with advanced knowledge of the nature of crime, criminal justice institutions and processes, current criminal justice policy and training in research methods, statistics, and program evaluation. The program will also be open to students seeking a terminal master’s degree and a career in the criminal justice system. Upon completion of the program, students will have furthered their understanding of crime, the criminal justice system, and be able to conduct evaluations of policies and programs within various agencies in the justice system. This program is structured so that enrolled students can complete the program in two years of part-time study (six credit hours per regular semester and six credit hours during the summer sessions). Recognizing most full-time professionals have schedules that often preclude attendance during regular class times, the program utilizes a variety of distance education techniques, including prerecorded and compressed video, and online instruction.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Learning outcomes for specific subplan tracks can be found below:
- Master of Arts - Criminal Justice; Professional
- Master of Arts - Criminal Justice; Traditional

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

1. An undergraduate degree from an institution with regional or national accreditation is required. Students are encouraged to complete some undergraduate course work related to criminal justice/criminology, and statistics in social sciences. A minimum GPA of 2.75 for all undergraduate work and a 3.00 for the last two years of undergraduate work is required for admission to the program.

2. The Graduate Record Examination (GRE) is required for admission.
3. A Criminal Justice Graduate Program Application Cover Page must be completed.
4. A statement of purpose for pursuing the Master of Arts Degree, addressing the student’s particular interests in the field of criminal justice and his or her future academic and/or professional goals, must be provided at the time of application.
5. Two letters of recommendation are required. It is preferred that both letters be from professors from whom the applicant took the classes. If the applicant completed the undergraduate degree work within the past five years, it is required that at least one letter be from a professor, unless the applicant can document the reasons why a letter from a former professor is difficult to obtain. If the applicant completed the undergraduate degree work more than five years ago and is currently working in a criminal justice-related field, two letters may be obtained from the applicant’s direct supervisor or co-workers. References from other sources will not be reviewed.
6. The admissions process requires submitting all information and materials through the UNLV Graduate College Online Application. See the Criminal Justice Department website for more details.
7. All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
See Subplan Requirements below.

Subplan 1 Requirements: Traditional Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 18
- CRJ 700 - Proseminar in Criminal Justice
- CRJ 701 - Proseminar on Theory
- CRJ 702 - Proseminar on Research Methods
- CRJ 703 - Proseminar on Statistics
- CRJ 704 - Proseminar on Law and Social Control
- CRJ 705 - Proseminar on the Administration of Justice

Criminal Justice Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level Criminal Justice courses. CRJ 716 and CRJ 799 may not be used to fulfill this
General Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level courses. Courses may be from Criminal Justice, from the following approved list of electives, or by advisor-approval:

- ENV 703 - Environmental Law and Policy Seminar
- LAW 639 - Feminist Jurisprudence
- LAW 642 - Law and Social Justice
- LAW 644 - Juvenile Law
- LAW 646 - Cyberlaw
- LAW 653 - Criminal Procedure I
- LAW 658 - Immigration Law
- LAW 666 - Domestic Violence and the Law
- PSC 710R - Proseminar in American Politics
- PSC 713 - American National Government: Principles
- PSC 714 - American National Government: Structure and Processes
- PSC 719 - Advanced Studies in American Politics
- PSC 721 - Public Policy Process
- PSC 723 - Policy Analysis
- PSC 729 - Advanced Studies in Public Policy
- PSC 732 - Constitutional Law
- PSC 739 - Advanced Studies in Public Law
- PSC 740 - Proseminar in International Relations
- PSC 754 - Global Governance
- PSC 755 - International Security
- PSC 759 - Advanced Studies in International Relations
- PSC 760R - Proseminar in Comparative Politics
- PSY 704 - Social Psychology
- PSY 736 - Psychopathology
- SOC 701 - Logic of Social Inquiry
- SOC 704 - Advanced Analytical Techniques
- SOC 705 - Qualitative Methods
- SOC 719 - Seminar in Deviance and Disorganization
- SOC 723 - Classical Sociological Theory
- SOC 724 - Issues in Contemporary Sociological Theory
- SOC 741 - Graduate Seminar in Social Stratification
- SOC 742 - Sociology of Gambling
- SOC 748 - Gender, Sex, Society
- SOC 773 - Seminar in Drug Use and Abuse
- SOC 774 - Seminar in Feminist Theories and Research

Thesis – Credits: 6
- CRJ 797 - Master’s Thesis in Criminal Justice

Degree Requirements
1. Complete a minimum of 36 credits at the 600- and 700-level with a minimum GPA of 3.00.
2. A maximum of 9 credits of 600-level course work is allowed.
3. Students may select up to 6 hours of approved graduate study in other social or behavioral sciences or in graduate programs formally approved by the department. An approved list of outside electives is available at the Criminal Justice website. Students must obtain an approval from Graduate Coordinator to take an outside elective course that is not on the approved list.
4. All students are required to write a thesis. The thesis will be written under the direction of a committee of three graduate faculty and chaired by a member of the faculty in Criminal Justice. One member of the thesis committee is a graduate faculty member from outside the Department of Criminal Justice. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.
5. Upon completion of the course work and thesis, an oral examination related to the general field and thesis is required of all students. The examination will be administered by the student’s thesis committee and a representative from outside the department chosen by the Graduate College. The oral examination will assess:
   a. The student’s competency in defending the substantive, theoretical, and methodological topics covered by the thesis.
   b. His or her general knowledge, including the ability to integrate topics covered by core and elective criminal justice classes and to apply core fundamentals to important issues.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Professional Track
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 18
• CRJ 700 - Proseminar in Criminal Justice
• CRJ 701 - Proseminar on Theory
• CRJ 702 - Proseminar on Research Methods
• CRJ 703 - Proseminar on Statistics
• CRJ 705 - Proseminar on the Administration of Justice
• CRJ 715 - Criminal Justice Policy

Criminal Justice Elective Courses – Credits: 9
Complete 9 credits of 600- or 700-level Criminal Justice courses. CRJ 716 and CRJ 799 may not be used to fulfill this requirement.

General Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level courses. Courses may be from Criminal Justice, from the following approved list of electives, or by advisor-approval:
• ACC 706 - Auditing Theory and Applications
• BIOL 701 - Ethics in Scientific Research
• BIOL 703 - Biochemical Genetics
• CED 715 - Counseling and Consultation Theories
• CED 732 - Advanced Multicultural Counseling
• CED 735 - Addictions Counseling
• CED 745 - Assessment, Treatment, and Case Management in Addictions
• CED 755 - Planning, Management, and Evaluation of Addictions and Mental Health Programs
• CED 766 - Psychopathology and Wellness Models in Counseling
• LAW 606 - Evidence
• LAW 616 - Criminal Law
• LAW 622 - Introduction to Gaming Law
• MBA 771 - Law and Ethics
• CFT 783 - Trauma and Abuse
• PAF 701 - Origins and Development of Public Policy in America
• PAF 702 - Role of Government in Society
• PUA 701 - Governance and the Urban Community
• PUA 705 - Public Goods and Public Finance
• PUA 711 - Seminar in Administrative Behavior
• PUA 715 - Administrative Law
• PUA 718 - Career Development and Performance Appraisal in the Public Sector
• PUA 751 - Origins and Development of Public Policy in America
• SW 675 - Treatment of Addictions

• ULD 701 - Leading Ethical Organizations
• ULD 730 - Leading in Diverse Communities

Comprehensive Exam – Credits: 3
• CRJ 796 - Comprehensive Examination

Degree Requirements
1. Completion of a minimum of 36 credits at the 600- and 700-level with a minimum GPA of 3.00.
2. A maximum of 9 credits of 600-level courses can be used toward the degree.
3. Students may take a maximum of 9 total credits of Independent Study and/or Graduate Readings for use toward the degree.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must successfully pass a comprehensive exam.

Master of Science - Emergency and Crisis Management

Plan Description
The ECEM program is a professional degree designed to maximize the expertise of experienced professionals from numerous disciplines, levels, and regions, thereby providing the opportunity to both advance individual philosophies and to gain broad exposure to a wide variety of other techniques and methodologies to effectively address natural, intentional, and technical disasters. The degree offers enhanced professional growth for the individual and a contribution to a developing body of knowledge. The program is intended for students interested in the general framework of Emergency Management and Homeland Security; Leadership, management and coordination skills for Emergency Management and Homeland Security; Community preparedness, mitigation, response and recovery from natural and man-made disasters; and Actually participating in exercise planning and execution.

Please note that the ECEM program is a special tuition and fee-based program approved by the Board of Regents. To find the current fee structure, please call (702) 895-0236.

Plan Execution
1. Students will evaluate, develop, and implement exercises designed to test their ability to apply course content.
2. Students will be required to complete course work
through the University’s online educational system.

3. Students are expected to enroll in a full three-course load each module and finish with the initial cohort.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

**Plan Admission Requirements**

**Application deadlines**

Applications available on the UNLV Graduate College website.

1. A baccalaureate degree from a regionally accredited college or university.
2. A minimum grade point average of 2.75 overall for all undergraduate work.
3. A completed Graduate College application.
4. Submission of official transcripts from all colleges and universities attended.
5. A resume which should indicate professional experience.
6. A personal statement
7. Three letters of recommendation.
8. A nonrefundable admission application fee, payable by credit card, check, or money order. Checks or money orders should be made payable to Board of Regents.
9. Satisfactory GRE scores in the verbal and quantitative sections may be required.

All the above should be submitted online through the Graduate College admissions application.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

**Total Credits Required**: 36

**Course Requirements**

**Required Courses – Credits: 33**

- ECEM 711 - Crisis and Emergency Management
- ECEM 712 - Science of Catastrophes
- ECEM 713 - Evolution of Terrorism
- ECEM 714 - Intergovernmental Affairs
- ECEM 721 - Organizational Leadership
- ECEM 722 - Community Preparedness
- ECEM 723 - Human Considerations
- ECEM 724 - Exercise Design and Response Plan
- ECEM 731 - Risk Assessment, Mitigation and Communication
- ECEM 732 - Prevention and Planning
- ECEM 733 - Response and Recovery

**Culminating Experience – Credits: 3**


**Degree Requirements**

1. Completion of a minimum of 36 credit hours with a minimum GPA of 3.00.
2. The degree requires the twelve courses listed above (36 credits), taken both on-line and on campus. All students who enter the program are expected to complete the program as a cohort. Each cohort will come to campus for several in-class sessions; the remainder of the educational experience involves interaction with instructors and classmates via web-based application, e-mail, and telephone.

**Plan Graduation Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

**CRJ 611 - Comparative Criminal Justice Systems**

Credits 3

Analysis of the development, function, and problems of foreign criminal justice systems. Emphasis on comparisons to the American system. Notes: This course is crosslisted with CRJ 411. Credit at the 600-level requires additional work.

**CRJ 628 - Women and Crime**

Credits 3

Women as offenders and as processed through the criminal justice system; women as victims and the response of the criminal justice system and the community. Same as WMST 428 Notes: This course is crosslisted with CRJ 428. Credit at the 600-level requires additional work.

**CRJ 641 - Social Science in Law**

Credits 3

Use of social science as a tool for a legal analysis. Examines the utility of empirical research in determining substantive legal issues such as community defenses, the use of offender profiles in criminal procedure, the death penalty and the size of juries. Notes: This course is crosslisted with CRJ 441. Credit at the 600-level requires additional work.

**CRJ 700 - Proseminar in Criminal Justice**

Credits 3

Provides an introduction to graduate studies in Criminal Justice. Students are exposed to information regarding the main components of the criminal justice system, including: law enforcement, courts, and the correctional system. Prerequisites: Graduate standing in criminal justice.

**CRJ 701 - Proseminar on Theory**

Credits 3

History of criminological thought. Contemporary and classical theories of crime. Attention to social, cultural, and psychological perspectives. Prerequisites: Graduate standing in criminal justice or
CRJ 702 - Proseminar on Research Methods  Credits 3
Methods and applications of quantitative and qualitative research. Relationships among theory, research, and social policy. Development and interpretation of research reports. Prerequisites: Graduate standing in criminal justice or consent of instructor and satisfactory completion of an undergraduate course in research methods.

CRJ 703 - Proseminar on Statistics  Credits 3
Univariate and multivariate techniques. Use of computerized statistical packages in the social and behavioral sciences. Practical applications in statistical problem-solving using primary and secondary data sources. Prerequisites: Graduate standing in criminal justice or consent of instructor and satisfactory completion of an undergraduate statistics course.

CRJ 704 - Proseminar on Law and Social Control  Credits 3
Nature of law and legal institutions. Relationships between law and other forms of social control. Theory and research on the development and implementation of law. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 705 - Proseminar on the Administration of Justice  Credits 3
Structures, functions, and operations of criminal justice organizations. Formal and informal organizational structures and their relationships to the broader social, political, and legal institutions. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 706 - Seminar on the Nature of Crime  Credits 3
Investigation of selected theoretical perspectives and particular types of crime and criminality. Notes: Specific subject matter varies by semester. May be repeated to a maximum of six credits. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 707 - Policing  Credits 3
Police organization and subculture, occupational socialization, police community relations, occupational deviance, policy formation, and related issues discussed. Notes: Specific subject matter varies by semester. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 708 - Seminar on Law and Legal Process  Credits 3
Development and implementation of criminal law. May focus on issues related to the legislative process, the criminal courts, case law, and legal reform. Notes: Specific subject matter varies by semester. May be repeated to a maximum of six credits. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 709 - Delinquency and Juvenile Justice  Credits 3
Historical development and current practices of juvenile courts and treatment institutions. Emphasis on the relationship between delinquency theory, research, and policy formulation, with particular attention to programs of delinquency prevention. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 712 - Punishment and Corrections  Credits 3
Philosophies and practices of punishment and corrections. Contemporary theory, the prison environment, work and rehabilitation programs, parole, overcrowding, capital punishment, and alternatives to imprisonment. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 713 - Victimization  Credits 3
Problems confronted by victims of crime. The role of the victim in criminal offenses. Policy, advocacy issues, and victims’ rights. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 714 - Proseminar on Law and Criminal Justice Theory  Credits 3
This seminar introduces major theories and paradigms within the disciplines of law and society, and criminal justice. It examines the social and historical context in which these theories were formed, illustrates the basic elements necessary for theory construction or testing, and critically assesses the strengths and weaknesses of the theories. Prerequisites: CRJ 701 and CRJ 702, Graduate standing in criminal justice, consent of instructor.

CRJ 715 - Criminal Justice Policy  Credits 3
Contemporary policies in criminal justice. Relationships among theory, policy, and practice. Attention to public opinion, legislative process, law enforcement administration, the courts, appellate review, issues of intergroup conflict, and civil rights. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 716 - Graduate Readings in Criminal Justice  Credits 3
With faculty supervision, students pursue a personalized program of readings related to specific issues in criminal justice. Prerequisites: CRJ 701 and CRJ 702 and Graduate standing in criminal justice or consent of instructor.

CRJ 718 - History of Criminology  Credits 3
Explores the development of the discipline of criminology from its European origin in the Middle Ages and Renaissance up to the work of the leading criminologists and perspectives in the 20th century.

CRJ 719 - Proseminar on Advanced Statistics  Credits 3
Overview of advanced statistical models such as Generalized Linear Model (Poisson, Negative binomial), Multilevel Models (Hierarchical Linear/Nonlinear Models), and Structural Equation Models. Introduction to advanced data analysis using STATA and M-plus programs. Application of advanced statistical methods to diverse secondary data. Prerequisites: CRJ 703 or consent of the instructor.

CRJ 720 - Drug Policies in the United States  Credits 3
Explores efforts to deal with the drug problem in America, covering especially the history of drug use and drug policies. Examination of the impact of drug policies racial minorities and poor communities. Focus on recent legislative developments and the overall impact on society will also be included.

CRJ 723 - Qualitative Research Methods in Criminology and Criminal Justice  Credits 3
An examination of qualitative research methodologies including epistemological assumptions, grounded theory, data collection, data analysis and interpretation.

CRJ 724 - Applied Research in Criminal Justice  Credits 3
Survey of research and statistical methods appropriate for evaluating criminal justice programs. Nature and role of program evaluation; impact and process assessment; presentation and interpretation of statistical results, ethics and politics of evaluation research. Prerequisites: CRJ 701, CRJ 702, CRJ 703.

CRJ 733 - Criminal Justice Teaching Practicum  Credits 3
Provides an overview of effective teaching and mentoring strategies for those who will teach in justice-related fields. Emphasis is placed on developing learning activities that build discipline-specific skills and support clear course objectives. Prerequisites: Graduate standing in criminal justice or consent of instructor.

CRJ 740 - Autonomous Systems, Drones and Driverless Vehicles: Policy and Legal Considerations  Credits 3
This course will explore policy and legal challenges related to the utilization of autonomous systems (e.g., drones, driverless vehicles) for civil and commercial use (including law enforcement work), the relationship between technology and policy, and the future of autonomous systems as tools for good, or instruments of malevolence.

CRJ 794 - Doctoral Comprehensive Examination  Credits 3
Doctoral students must pass a written comprehensive examination designed to test students’ ability to synthesize a body of knowledge in criminology and criminal justice. May be repeated up to six credits. Grading: Satisfactory/Fail Prerequisites: Department approval.

CRJ 795 - Dissertation  Credits 1-9
Research, analysis, and writing toward completion of the dissertation and preparation for subsequent oral defense. Students are required to complete eighteen credits for their doctoral degree; may register...
for additional credits that will not count toward degree. Grading: S/F grading only Prerequisites: Department consent

**CRJ 796 - Comprehensive Examination**  Credits  3
As part of the requirements for the Professional Degree Program, students must pass a written comprehensive examination designed to test students' ability to synthesize a body of knowledge in criminal justice. Notes: May be repeated to a maximum of six credits. Prerequisites: CRJ 700, CRJ 702, CRJ 703, CRJ 705

**CRJ 797 - Master’s Thesis in Criminal Justice**  Credits  3 or 6
Development of a research design and analysis of data relating to an issue of theoretical and empirical significance. Students expected to display the ability to integrate the elements of the core courses and related program of study. Notes: May be repeated to a maximum of six credits. Grading: S/F grading only. Prerequisites: CRJ 701, CRJ 702, CRJ 703, CRJ 704, and CRJ 705 and Graduate standing in criminal justice, consent of instructor.

**CRJ 798 - Applied Project in Criminal Justice**  Credits  3
Research application in criminal justice or an evaluation of a specific criminal justice program. Notes: May be repeated to a maximum of six credits. Prerequisites: CRJ 701, CRJ 702, CRJ 703, CRJ 704, CRJ 705, and CRJ 724

**CRJ 799 - Independent Study in Criminal Justice**  Credits  3 - 21
Directed research on an issue of contemporary significance in criminal justice, culminating in the development of a research paper. Notes: May be repeated to a maximum of twenty-one credits. Prerequisites: CRJ 701 and CRJ 702 and Graduate standing in criminal justice or consent of instructor.

---

**Hank Greenspun School of Journalism and Media Studies**

The Hank Greenspun School of Journalism and Media Studies offers the master of arts degree, a course of study designed to emphasize methodological and theoretical exploration. JMS courses help students acquire tools for conducting graduate-level research and for producing scholarship. The curriculum allows students to investigate areas such as advertising, emerging media, film, the internet, media management, print, public relations, and television, and their effects at social and individual levels. The program aims to develop a deep understanding of the media and to make students experts on journalistic and mass-mediated problems and issues, as well to make them better consumers of media messages, developers of content, and critics of mediated subject matter. Because each student’s goals are unique, the program is flexible in developing individual program curricula, offering both traditional and non-traditional thesis options. The objective is to balance the discipline’s varied traditions in theory, history, and research with attention paid to emerging media contexts.

*Kevin Stoker, Ph.D., Chair*

*Ben Burroughs, Ph.D., Graduate Coordinator*

---

**Journalism and Media Studies Faculty**

**Chair**

Stoker, Kevin

**Graduate Coordinator**

Burroughs, Benjamin- Full Graduate Faculty Assistant Professor; B.A., B.S., Brigham Young University-Hawaii; M.A., University of Southern California; M.Sc., London School of Economics and Political Science; Ph.D., University of Iowa. Rebel since 2015.

**Graduate Faculty**

Bates, Stephen- Full Graduate Faculty Associate Professor; B.A., J.D., Harvard University. Rebel since 2006.

Borchard, Gregory- Full Graduate Faculty Professor; B.A., M.A., University of Minnesota; Ph.D., University of Florida. Rebel since 2003.

Kilker, Julian A.- Full Graduate Faculty Associate Professor; B.A., Reed College; M.S., Ph.D., Cornell University. Rebel since 1999.

Larson, Gary- Associate Graduate Faculty Associate Professor-in-Residence; B.A., University of Minnesota; M.A., North Dakota State University; Ph.D., University of Minnesota. Rebel since 2000.

Traudt, P.J.- Full Graduate Faculty Associate Professor; B.A., University of Colorado-Boulder; M.A., University of Utah; Ph.D., University of Texas-Austin. Rebel since 1996.

Venger, Olesya- Full Graduate Faculty Assistant Professor; B.A., M.A., Kyiv-Mohyla Academy, Ukraine; M.A., Marquette University; M.A., University of Pennsylvania; Ph.D., University of Georgia. Rebel since 2014.
Master of Arts - Journalism & Media Studies

Plan Description

The Hank Greenspun School of Journalism & Media Studies offers a graduate program of study leading to a Master of Arts degree. Courses of study are designed both for students with a career orientation - in such diverse arenas as human resources, politics, advertising, education, public relations, broadcasting, and social services - and for those who aspire to continue their education in doctoral programs.

All students are required to take four introductory courses: survey of graduate studies, quantitative analysis, qualitative research methods, and theory. Yet because each student’s goals are unique, the curriculum allows flexibility in developing individual degree programs. Such development aims to balance the discipline’s varied traditions in theoretical, historical, and applied research, with particular attention to the changing culture of the twenty-first century.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

The master’s degree program is designed to meet the student’s professional and/or personal objectives. Although an undergraduate degree in journalism, broadcasting, media studies, or communication is not required for admission to the program, a student without a background in these related fields may be required to complete additional course work at the graduate or undergraduate level in order to satisfy minimum expectations of someone entering a graduate course of study.

- The Hank Greenspun School of Journalism and Media Studies admits graduate students only in the fall semester.
- Review of applications begins March 15.
- For additional information, check the school’s website.

Students should send application and college transcripts to the Graduate College. In addition, the following should be sent directly to the Graduate Coordinator of the Hank Greenspun School of Journalism and Media Studies:

1. A copy of your undergraduate transcripts (you must have a GPA of at least 3.00 in the last 90 credits of undergraduate course work).
2. Satisfactory scores on the verbal and quantitative sections of the Graduate Record Examination (GRE).
3. At least three letters of recommendation from people who are able to attest to the applicant’s ability to do graduate-level work. At least one of these letters should come from a former or current professor or college-level instructor.
4. A letter of intent detailing the applicant’s goals and expectations as a graduate student in journalism and media studies.
5. A writing sample such as a college course term paper.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan 1 Requirements: Thesis Track

Subplan 2 Requirements: Non-Thesis Track

Subplan 1 Requirements: Thesis Track

Total Credits Required: 30

Course Requirements

Required Courses – Credits: 12

- JMS 710 - Graduate Journalism and Media Studies: Overview, resources, and communicating research
- JMS 712 - Quantitative Research Methods
- JMS 730 - Journalism and Media Theory

and 3 credits of graduate-level coursework in qualitative methods (coursework from outside the department of Journalism and Media Studies (JMS) must have the approval of the graduate coordinator).

Journalism & Media Studies Courses – Credits: 6

Complete 6 credits in JMS or other advisor-approved courses.

Elective Courses – Credits: 6

Complete 6 credits of 600- or 700-level elective coursework.

Thesis – Credits: 6

- JMS 798 - Thesis

Degree Requirements

1. Students may elect to present their theses content in traditional or non-traditional formats.
1. The non-traditional thesis must be consistent with the overall objectives of the program and be approved by the student’s thesis committee. There content may be written or take the form of a documentary, drama, public relations campaign, film, video, exhibit, script, website, or any combination approved by the student’s thesis committee. In addition, a written research component that follows department and Graduate College formatting guidelines is required.

2. Regardless of the option selected, the entire thesis must be approved by the Graduate College for electronic and university library access purposes. An oral examination of the thesis is required.

2. The Graduate Coordinator is the temporary advisor for all new, incoming graduate students. Before completing 16 credit hours, the student selects a permanent advisor who mentors the student through the remainder of the program and guides them in the thesis or examination process.

3. Students are responsible for determining a program of study with their advisor or Graduate Coordinator.

4. A passing grade in any graduate-level course is B- or better. Any course grade of C+ or lower will not be included in the student’s degree program. All grades, pass or fail, are calculated to produce the student’s GPA. Students can repeat a course to try to better a grade. To graduate, the master’s student must have a GPA of 3.00 or higher in his or her accumulated course work.

5. A student who fails the oral examination for the comprehensive examination is allowed to reschedule the oral examination no sooner than three months after the first attempt. Student will be placed on probation. Failure on the second attempt results in the student being separated from the program.

Subplan 2 Requirements: Non-Thesis Track
Total Credits Required: 30

Course Requirements

Required Courses – Credits: 12

• JMS 710 - Graduate Journalism and Media Studies: Overview, resources, and communicating research
• JMS 712 - Quantitative Research Methods
• JMS 730 - Journalism and Media Theory

and 3 credits of graduate-level coursework in qualitative methods (coursework from outside the department of Journalism and Media Studies (JMS) must have the approval of the graduate coordinator).

Journalism & Media Studies Courses – Credits: 12
Complete 12 credits in JMS or other advisor-approved courses.

Elective Courses – Credits: 6
Complete 6 credits of 600- or 700-level elective coursework.

Degree Requirements

1. The 30-semester-hour non-thesis option culminates in three activities: the satisfactory completion of written comprehensive exams, the submission of a Graduate Education Portfolio, and satisfactory completion of an oral examination. The student works with his/her faculty advisor (whom the student selects) to compose a Faculty Committee. The committee administers the written and oral exam. The development and completion of the Graduate Education Portfolio is negotiated between the student and the faculty advisor.

2. The Graduate Coordinator is the temporary advisor for all new, incoming graduate students. Before completing 16 credit hours, the student selects a permanent advisor who mentors the student through the remainder of the program and guides them in the thesis or examination process.

3. Students are responsible for determining a program of study with their advisor or Graduate Coordinator.

4. A passing grade in any graduate-level course is B- or better. Any course grade of C+ or lower will not be included in the student’s degree program. All grades, pass or fail, are calculated to produce the student’s GPA. Students can repeat a course to try to better a grade. To graduate, the master’s student must have a GPA of 3.00 or higher in his or her accumulated course work.

5. A student who fails the oral examination for the comprehensive examination is allowed to reschedule the oral examination no sooner than three months after the first attempt. Student will be placed on probation. Failure on the second attempt results in the student being separated from the program.

Plan Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.

3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>JMS 601</td>
<td>The First Amendment and Society</td>
<td>3</td>
<td>Examination of the evolution and contemporary impact of laws relating to communication. Notes: This course is crosslisted with JOUR 401. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 608</td>
<td>Media Criticism</td>
<td>3</td>
<td>Critical study of the rhetorical dimensions of newspapers, magazines, books, television, and motion pictures. Notes: This course is crosslisted with JOUR 408. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 613</td>
<td>History Of Journalism</td>
<td>3</td>
<td>History of American mass media from antecedents in medieval Europe to the present. Notes: This course is crosslisted with JOUR 413. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 620</td>
<td>Visual Literacy</td>
<td>3</td>
<td>Analysis of graphics, film, television, and computer images. Theoretical, critical, and practical application. Hands-on experience emphasized with a lot of pictorial examples viewed and discussed in class. Notes: This course is crosslisted with JOUR 420. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 635</td>
<td>Mass Communication Research Methods</td>
<td>3</td>
<td>Survey of empirical research methods in communication including laboratory, field, and survey methods and their applications. Notes: This course is crosslisted with JOUR 435. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 684</td>
<td>Mass Media and Political Communication</td>
<td>3</td>
<td>Analysis of historical and contemporary political discourse. Addresses such topics as presidential rhetoric, electoral campaigns, ethics in political culture, institutional leadership, publics and public opinion, mediated political speech, legislative debates, political socialization. Notes: This course is crosslisted with JOUR 484. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 685</td>
<td>Mass Media and Society</td>
<td>3</td>
<td>In-depth look at the functions of the press in gathering and disseminating knowledge, news and entertainment; specific attention paid to the role of the press in shaping public opinion and influencing public action. Notes: This course is crosslisted with JOUR 485. Credit at the 600-level requires additional work.</td>
</tr>
<tr>
<td>JMS 709</td>
<td>Introduction to Research Methods in Journalism and Media Studies</td>
<td>3</td>
<td>Introduction to methods used in JMS research, concentrating on tools students may encounter in developing literature reviews and papers, including theses or papers. Students demonstrate familiarity with methods by developing and presenting an original research paper that features the use of a methodological approach discussed in class.</td>
</tr>
<tr>
<td>JMS 710</td>
<td>Graduate Journalism and Media Studies: Overview, resources, and communicating research</td>
<td>3</td>
<td>Introduction to graduate writing and presentation techniques and processes; overview of past and current issues in journalism and media studies; introduction to university and program resources. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 711</td>
<td>Qualitative Research Methods</td>
<td>3</td>
<td>Fundamentals of humanistic research methodologies; examines such methods as case study, ethnography, focus groups, interviews, visual methods, and other qualitative and critical research methods. Notes: Application and critique of the methods. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 712</td>
<td>Quantitative Research Methods</td>
<td>3</td>
<td>Fundamentals of scientific research examined and applied; surveys, content analysis, and other methods appropriate to the study of journalistic and media messages, processes, and effects examined. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 713</td>
<td>History of Journalism and Mass Communication</td>
<td>3</td>
<td>Critical analysis of historical research and scholarship in journalism and media studies including primary sources and methods. Development of a research project. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 715</td>
<td>Science and Health Communication</td>
<td>3</td>
<td>Investigates the application of communication theory and research to understanding processes through which information related to science, health, environment, and technology reaches the public. Emphasis on mediated communication but also considers the interrelated roles of other channels.</td>
</tr>
<tr>
<td>JMS 730</td>
<td>Journalism and Media Theory</td>
<td>3</td>
<td>Explores and explains various media phenomena at a theoretical level. Surveys theoretical ideas, the nature of theory, specific theories in the field and those from other fields related to the discipline. Theory evaluation and metatheoretical issues. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 733</td>
<td>First Amendment Theory</td>
<td>3</td>
<td>Examination of theory development on the meaning of the press and speech clauses of the First Amendment and how First Amendment theory has been reflected in legal decisions. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>JMS 739</td>
<td>Special Problems in Media Production</td>
<td>3</td>
<td>Discussion and practical experience in production techniques of the mass media. Notes: May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>JMS 760</td>
<td>Social Influence of the Media</td>
<td>3</td>
<td>Analysis of mediated communication patterns and their social importance; considers both news, public affairs, and entertainment influences. Notes: Emphasis may vary depending on instructor.</td>
</tr>
<tr>
<td>JMS 789</td>
<td>Selected Topics in Journalism and Media Studies</td>
<td>3</td>
<td>Content varies with current developments in research in Journalism and Media Studies. Notes: May be repeated to a maximum of six credits with consent of instructor and department chair. Prerequisites: Consent of instructor.</td>
</tr>
<tr>
<td>JMS 794</td>
<td>Special Readings</td>
<td>3</td>
<td>Content dependent upon the instructor’s interest and expertise, as well as student interest and requirements. Notes: Course may be repeated to a maximum of six credits. Prerequisites: Graduate standing.</td>
</tr>
<tr>
<td>JMS 795</td>
<td>Independent Study</td>
<td>1 – 4</td>
<td>Supervised study in subjects and projects determined in consultation with a faculty member. Students wishing to take this course must consult with the faculty member prior to registration. Notes: May be repeated to a maximum of six credits. Prerequisites: Faculty approval.</td>
</tr>
<tr>
<td>JMS 798</td>
<td>Thesis</td>
<td>3</td>
<td>Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits apply to the student’s program. Grading: S/F grading only. Prerequisites: Graduate standing only.</td>
</tr>
</tbody>
</table>
School of Public Policy and Leadership

The School of Public Policy and Leadership was created to assist the College of Urban Affairs in its mission to prepare community leaders and address pressing societal issues. The school provides an umbrella for exciting, interdisciplinary research and teaching in public administration and governance, environmental science and studies, non-profit management, urban studies, and natural resources management. Our faculty’s strong record and interest in these areas offer students and practitioners a variety of possibilities in cutting-edge and relevant knowledge, research, and projects. The school does this primarily through interdisciplinary activities including policy forums and the offering of doctoral degrees in environmental science and public affairs.

Christopher Stream, Ph.D., Director
Jayce Farmer, Ph.D., Graduate Coordinator
Lee Bernick, Ph.D., Graduate Coordinator

School of Public Policy and Leadership Faculty
School of Public Policy and Leadership Courses

Plans
Certificates:
Graduate Certificate in Nonprofit Management

Graduate Certificate in Public Management

Masters:
Master of Public Administration
Master of Arts - Urban Leadership
Doctor of Philosophy - Public Affairs
Doctor of Public Policy

Graduate Certificate in Nonprofit Management

Plan Description
The School of Public Policy and Leadership offers a Graduate Certificate in Nonprofit Management. The Certificate is designed for individuals with either a baccalaureate degree or a graduate degree who are interested in enhancing their educational background with regard to the nonprofit sector. The Certificate is designed to provide individuals the intellectual foundation to function as a manager in nonprofit organizations.

Students earning the certificate may apply for admission into the Master of Public Administration degree program. If accepted, the fifteen credits earned in the certificate program may be applied to the M.P.A. Additional information about admissions to the M.P.A. can be found on the School of Public Policy and Leadership web page.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines
Applications available on the UNLV Graduate College website.

Applicants for admission to the Certificate in Nonprofit Management Program must have earned an undergraduate degree from a regionally accredited college or university. Applicants must be accepted by the Graduate College and the School of Public Policy and Leadership.

Application Process:
1. Apply online to the Graduate College.
2. All application material is subsequently reviewed by faculty to determine admission into the program.
3. Additional materials listed below should be uploaded and submitted with your application:
   a. Official transcripts demonstrating an earned bachelor’s degree from a regionally accredited college or university and a GPA sufficient to meet Graduate College requirements.
   b. Note: Unofficial transcripts are allowed to be uploaded and submitted with your application to allow initial evaluation.
4. Two letters of recommendation from professors, employers, and/or professional colleagues. Identify the two people sending letters of recommendation on your behalf. They will, in turn, upload their letters to the Graduate College’s On-line application site. To get this process started, go to the Graduate College’s Application process web page and click on the RECOMMENDATIONS link at the left side of the page immediately below the Application process links. Then make sure you check “yes” when it asks you about submitting your letters electronically.
5. A written essay explaining why you are interested in the certificate program in nonprofit management.

6. A current resume.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Refer to the Graduate College website for current deadlines.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 15

Course Requirements
Core Courses – Credits: 6

- PUA 708 - Organizations and Organizational Behavior
- PUA 770 - Nonprofit Management and Theories of the 3rd Sector
Required Courses – Credits: 6
Complete two of the following three credit courses, one of which must be writing intensive:

- PUA 771 - Grant Writing and Evaluation Field Study
- PUA 772 - Grant Evaluation and Strategic Allocation Field Study
- PUA 773 - Marketing and the Nonprofit Organization
- PUA 774 - Community Outreach and Volunteerism
- PUA 775 - Strategic Planning and Program Evaluation for Nonprofits
- PUA 776 - Development for Nonprofit Managers

Elective Courses – Credits: 3
Complete three of the following one-credit courses (three hours)

- PUA 610 - Grant Writing for Public and Nonprofit Managers
- PUA 611 - Policy Advocacy and Lobbying
- PUA 612 - Performance Measurement for Public and Nonprofit Organizations
- PUA 613 - Leadership and Ethics for Public and Nonprofit Managers
- PUA 615: Nonprofit Financial Management

Certificate Requirements
1. Completion of a minimum of 15 credit hours with a minimum GPA of 3.00.
2. Students are required to submit a portfolio in their final semester. Specific guidelines for the portfolio may be obtained from the Nonprofit Certificate program director.

Plan Certificate Completion Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. Complete the final project paper.

Graduate Certificate in Public Management

Plan Description
The School of Public Policy and Leadership offers a Graduate Certificate in Public Management. The certificate is designed for individuals with a baccalaureate degree and who are currently employed in a public (national, state, or local) or nonprofit agency. The certificate is designed to provide individuals the basic intellectual foundation necessary to function as a manager in the public sector.

The Public Management Certificate Program begins once a year in January of the Spring Semester.

Students earning the certificate may apply for admission into the Master of Public Administration degree program. If accepted, the fifteen credits earned in the certificate program may be applied to the M.P.A. Additional information about admissions to the M.P.A. can be found on the School of Public Policy and Leadership web page.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

To be admitted to the program, you must:

1. Have earned an undergraduate degree from a regionally accredited college or university.
2. Be currently employed in a public agency at the national, state, or local level or at a nonprofit.
3. Enter a cohort that is being sponsored by a government or nonprofit agency.
4. Be accepted by the Graduate College and the School of Public Policy and Leadership.
5. Provide two letters of recommendation from professors, employers and/or professional colleagues.
6. Submit a current resume with your application.
7. All applicants must review and follow the Graduate College Admission and Registration Requirements.

Application Process:

1. Apply to the Graduate College through the online application system. Be sure to select the certificate in Public Management (rather than the MPA degree) from the list.
2. You are required to send official transcripts for all college-level work to the Graduate College.
3. Note: Unofficial transcripts can be uploaded and submitted to the Graduate Coordinator in the School of Public Policy and Leadership for initial evaluation.
4. Identify the two people sending letters of recommendation on your behalf. They will, in turn, upload their letters to the Graduate College’s On-line application site. To get this process started, go to the Graduate College’s Application process web page and click on the RECOMMENDATIONS link at the left side of the page immediately below the Application process links. Then make sure you check “yes” when it asks you about submitting your letters electronically (These can be submitted electronically by the letter writers).

5. After the School and Graduate College obligations have been met, the file then goes to the School’s Admission Committee. The Graduate College will then send you an email confirmation with the status of the admission decision.

Note: If you complete the required 15 credits with a 3.5 GPA or higher, then you will be able to apply for the MPA program and possibly be accepted without taking the GRE the following spring.

Refer to the Graduate College website for current deadlines.

Students are accepted into a certificate program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 15

Course Requirements
Core Courses – Credits: 6
• PUA 701 - Governance and the Urban Community
• PUA 703 - Seminar In Organization Theory

Required Courses – Credits: 6
Complete two of the following three credit courses, one of which must be writing intensive:
• PUA 705 - Public Goods and Public Finance
• PUA 708 - Organizations and Organizational Behavior
• PUA 715 - Administrative Law
• PUA 740 - Urban Administration
• PUA 741 - Leading and Assessing Change in Organizations
• PUA 745 - Administration in a Federal and Intergovernmental Perspective
• PUA 749 - Ethics in Public Administration

Elective Courses – Credits: 3
Complete three of the following one-credit courses (three hours)
• PUA 610 - Grant Writing for Public and Nonprofit Managers
• PUA 611 - Policy Advocacy and Lobbying
• PUA 612 - Performance Measurement for Public and Nonprofit Organizations
• PUA 613 - Leadership and Ethics for Public and Nonprofit Managers
• PUA 614 - Facilitation

Certificate Requirements
1. Completion of a minimum of 15 credit hours with a minimum GPA of 3.00.
2. Students are required to submit a final project paper that uses knowledge and skills obtained from the course work and apply this information to an organization of their choice. Specific guidelines for the paper may be obtained from the Public Administration Graduate Coordinator.

Plan Certificate Completion Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation in MyUNLV by the appropriate deadline.
2. Complete the capstone experience.

Doctor of Philosophy - Public Affairs

Plan Description
The Doctor of Philosophy in Public Affairs is a research-oriented degree that prepares students for careers in advanced teaching, research and professional employment in the areas of public policy and public affairs. The program’s curriculum educates students in theories and methods that emphasize research and scholarship focused on governmental and nonprofit settings. The Ph.D. program is interdisciplinary in its approach, as students are encouraged to study public policy issues together with appropriate departments throughout the Greenspun College of Urban Affairs. Graduates of this program are trained for research and advanced teaching within academic institutions. The program also prepares students for careers that emphasize research within governmental and other research-based organizations.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

The program only accepts applicants for the fall semester, with an average acceptance of seven applicants a year.

Admission requirements include:
1. A graduate degree (master’s or another advanced degree, i.e. J.D.) from a regionally accredited institution with a minimum GPA of 3.5 (competitive GPAs are expected to be 3.7 or higher) on a 4.0 scale.
2. Three letters of recommendation that speak to the applicant’s, character, work ethic and potential to successfully complete advanced graduate work at the doctoral level. Letters are preferred from at least one individual that has served as a faculty or academic supervisor, and at least one from an individual that has supervised or worked with the applicant within a work setting.

3. A current resume or vita

4. A statement of purpose explaining the applicant’s career goals and how a doctorate degree in public affairs would enhance the likelihood of achieving those goals. The statement should also explain why the applicant believes that he or she is qualified to conduct advanced graduate level academic work. Finally, the statement should address the specific research area of interest that the applicant would like to emphasize.

5. A writing sample from previous graduate work or a significant publication completed in an academic or professional work setting that is directly attributable to the applicant.

6. Satisfactory GRE scores (preference is given to applicants with scores above 153 for the verbal section, and 144 for the quantitative section; equivalent LSAT scores are acceptable).

Finalists for admissions will be asked to meet with a member of the admission committee for a personal interview.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 46

Course Requirements

Required Courses – Credits: 10
- PAF 701 - Origins and Development of Public Policy in America
- PAF 702 - Role of Government in Society
- PAF 703 - Institutions and Policy Decisions
- PAF 704 - Public Affairs as a Profession

Analytical Studies Core Courses – Credits: 12
Complete the following two courses plus two additional departmental approved 3 credit hour analytical courses that emphasize quantitative or qualitative methods of conducting advanced research:
- PAF 710 - Theory and Design of Research
- PAF 711 - Advanced Seminar in Quantitative Research in Public Affairs

Area of Specialization Courses – Credits: 12
Complete 12 credits of advisor-approved elective coursework at the 700-level in a specific area of public policy. Courses may be taken from more than one department within the Greenspun College of Urban Affairs. Approval of the plan of study in the area of concentration must be received before taking any course.

Dissertation – Credits: 12
- PAF 799 - Dissertation Research in Public Affairs

Degree Requirements
1. Completion of a minimum of 46 credit hours with a minimum GPA of 3.00. All core courses and analytical studies courses must be completed with a grade of “B” or better.

2. All students, in conjunction with the Public Affairs Ph.D. Graduate Coordinator, will obtain an advisor who will serve as the chair of a student’s Doctoral Dissertation Committee.

3. Students will take the equivalent of three exams before completing the degree.
   1. A written exam will be given that covers course work in both the core and analytical areas of study
   2. The equivalent of a second exam will be taken by the student when the student completes and orally defends the dissertation prospectus. The prospectus serves as a proposal for the anticipated dissertation research.
   3. Upon completion of the full dissertation, students will present and orally defend their dissertation research to the public and their Dissertation Committee. This is the equivalent of the third exam

4. All students must complete a high quality dissertation that makes an original contribution to knowledge.

5. Students must enroll in dissertation credit hours each semester during their dissertation work

6. Students should be aware that the Graduate College limits course work for a degree to six years. Students should consult the Graduate College to ensure that they are familiar with College policies and procedures.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must submit and successfully defend his/her dissertation by the posted deadline. The defense must be advertised and is open to the public.

3. The student must submit his/her approved, properly formatted dissertation to the Graduate College, and ProQuest by the posted deadline.
Master of Arts - Urban Leadership

Plan Description

The M.A. in Urban Leadership at UNLV’s School of Public Policy and Leadership recognizes that effective, creative, and energetic urban leaders are critical for fostering positive change to the economic, social, and political conditions of America’s cities. Given the complex nature of the 21st century city, urban leaders require a broad range of skills that include: innovation problem-solving, strategic planning, and collaborative management. This degree will help students develop their skills in these areas.

Aimed at professionals who are actively engaged and working in the community, this degree is offered almost entirely online to maximize student flexibility. The online courses will be enhanced by three face-to-face panel-networking events where students will engage with each other and urban leaders from the Las Vegas community and nationally.

If you want to improve your ability to shape the urban community, then this is the degree for you.

At the core of our program is an intellectually rigorous curriculum that will help urban leaders:

1. Shape and communicate their vision
2. Create innovative solutions to pressing issues
3. Collaborate with stakeholders and,
4. Implement strategic plans, programs, and policies

Our program is unique in its recognition that urban leaders come from a variety of professional backgrounds. Leaders can be elected officials, public administrators, non-profit leaders, and leaders in private organizations. Thus, a defining feature of our program is that students will have an opportunity to engage with leaders from a host of community settings. To further enhance this professional engagement, our student’s experience will be highlighted by a series of panels and workshops that will allow participants to engage with some of the foremost urban leaders and policy analysts in the country.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

All applications for admission to the Urban Leadership program are made to the Graduate College but are reviewed by the Urban Leadership Program Coordinator. The Coordinator considers all materials submitted as part of the application process, including training and preparation, general abilities, and previous experience. An online application and official transcripts of all college-level work must be submitted to the Graduate College. Applicants should review and follow the Graduate College Admission and Registration Requirements.

In addition, the applicant should have:

1. A baccalaureate degree from a regionally accredited college or university
2. A minimum grade point average of 2.75 overall for all undergraduate work
3. A completed Graduate College application
4. Submission of official transcripts from all colleges and universities attended
5. A resume that outlines your professional experience
6. A personal statement of interest
7. Three letters of recommendation

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements
Total Credits Required: 36

Course Requirements

Core Courses – Credits: 12

- ULD 720 - Urban Governance
- ULD 722 - Urban Issues
- ULD 737 - From Analytics to Action: How to use Data
- ULD 742 - Social Media and Communication Technology

Design Thinking & Development Courses – Credits: 6

- ULD 735 - Design Thinking for Urban Issues
- ULD 736 - Design Thinking for Urban Solutions

Leadership Courses - Credits: 9

- ULD 750 - Leadership in Urban Contexts
- ULD 752 - Developing and Nurturing Teams
- ULD 754 - Collaborative Leadership

Legacy Course - Credits: 9

- ULD 780 - Community Engagement Legacy Project

Degree Requirements

1. The Urban Leadership M.A. requires 36 credits of approved course work.
2. All students will meet with an academic advisor and complete a formal degree plan, which must have the approval of the M.P.A. coordinator.
3. Students must obtain a B average to graduate. A student can have no more than one grade less than a B-.
Plan Graduation Requirements

1. Students must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. The student must complete the Legacy Project.

Master of Public Administration

This program is accredited by: NASPAA. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Master of Public Administration (MPA) degree is the professional degree for the field of public administration and it serves to provide public sector practitioners with an understanding of the inner workings of governmental environments. Our program is the only MPA program nationally accredited by the Network of Schools of Public Policy, Affairs, and Administration (NASPAA) in the state of Nevada. Our goal is to prepare students to become public service professionals within organizations that serve the public and nonprofit sectors. Additionally, our program serves career military personnel and private sector professionals whose responsibilities involve extensive contact with governmental agencies.

Graduates of the MPA program will have an understanding of the inner workings of governmental organizational structures, the key principles of public management and administration, and the basic methods of researching and analyzing public policy issues. Graduate work in the program provides an awareness of the organizational and policy contexts in which public sector administrators make and implement decisions. The learning objectives of our program are designed to provide students with skills and expertise that demonstrate their proficiencies within five core competency areas.

For more information about your program, including your graduate program handbook and learning outcomes please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

While admissions to the MPA program entails specific requirements, consideration for admissions may also include previous professional and academic experience.

All applicants are required to have:

1. An earned bachelor’s degree in an acceptable field of undergraduate study from a regionally accredited college or university.

2. A GPA of at least 2.75 overall or 3.00 in the last 60 semester hours of undergraduate study on a 4.0 scale.

3. Satisfactory score on either the Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT). Applicants with an undergraduate GPA of 3.5 and five years of responsible administrative or professional work experience in the public or nonprofit sector need not submit GRE or GMAT scores. Applicants who have completed the department’s Graduate Certificate in Public Management with a GPA of 3.5 or higher need not submit GRE or GMAT scores. The GRE scores should be sent directly to the School of Public Policy and Leadership.

4. Three reference letters that speak to the applicant’s character, work ethic and ability to conduct graduate work.

5. A resume indicating educational and professional experience sent to the School of Public Policy and Leadership.

6. A personal statement describing how the MPA fits into the applicant’s professional goals.

7. An official transcript from the college or university where the applicant received a bachelor’s degree should be sent to the School of Public Policy and Leadership and Graduate College.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

See Subplan Requirements below.

Subplan I Requirements: Public Administration Concentration

Total Credits Required: 36

Course Requirements

Required Courses – Credits: 15

• PUA 701 - Governance and the Urban Community
• PUA 703 - Seminar In Organization Theory
• PUA 705 - Public Goods and Public Finance
• PUA 707 - Law and Public Policy
• PUA 708 - Organizations and Organizational Behavior

Analytic Skills Courses – Credits: 3

• PUA 723 - Research and Analytical Methods

Elective Courses – Credits: 9

Complete 9 credits of elective coursework from any graduate-level Public Administration (PUA) course or graduate-level social science, business, or other relevant course with the approval of the graduate coordinator or department chair.
Writing Intensive Elective Courses – Credits: 3
Complete 3 credits of advisor-approved Public Administration (PUA) coursework. Whether a course satisfies this requirement depends on the writing assignments and how the instructor structures them. The courses that satisfy this requirement for an upcoming semester will be available from the department and the graduate coordinator.

Culminating Experience – Credits: 6
Complete the following courses in sequence
- PUA 725 - Policy Analysis and Program Evaluation
- PUA 729 - MPA Capstone Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Subplan 2 Requirements: Nonprofit Management Concentration
Total Credits Required: 36

Course Requirements
Required Courses – Credits: 18
- PUA 701 - Governance and the Urban Community
- PUA 703 - Seminar In Organization Theory
- PUA 705 - Public Goods and Public Finance
- PUA 707 - Law and Public Policy
- PUA 708 - Organizations and Organizational Behavior
- PUA 770 - Nonprofit Management and Theories of the 3rd Sector

Analytic Skills Courses – Credits: 3
- PUA 723 - Research and Analytical Methods

Nonprofit Management Courses – Credits: 9
Complete 12 hours of the following courses, one course (3 credits) must be writing intensive:
- PUA 610 - Grant Writing for Public and Nonprofit Managers
- PUA 611 - Policy Advocacy and Lobbying
- PUA 612 - Performance Measurement for Public and Nonprofit Organizations
- PUA 613 - Leadership and Ethics for Public and Nonprofit Managers
- PUA 771 - Grant Writing and Evaluation Field Study
  PUA 773 - Marketing and the Nonprofit Organization
- PUA 774 - Community Outreach and Volunteerism
- PUA 775 - Strategic Planning and Program Evaluation for Nonprofits
- PUA 776 - Development for Nonprofit Managers

Culminating Experience – Credits: 6
Complete the following courses in sequence
- PUA 725 - Policy Analysis and Program Evaluation
- PUA 729 - MPA Capstone Experience

Degree Requirements
See Plan Degree Requirements below.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Degree Requirements
1. Completion of a minimum of 36 credit hours with a minimum GPA of 3.00.
2. All students entering the program must start with PUA 701 - Governance & Urban Community, a class designed to provide a general overview of the field. With this foundation, the student then embarks upon the rest of the program.
3. Students may enroll in PUA 725 only after they have completed at least 24 credit hours toward the MPA degree. The order of the end-of-course sequence (PUA 725) is determined by when the student completes the required 24 credit hours.
4. Students enroll in PUA 729 - MPA Capstone Experience to complete their final project which is taken after completing PUA 725. The final project applies analytical skills to an issue of interest to a governmental or nonprofit agency and should be completed near the end of a student’s program of study.
5. Students must obtain a B average in order to graduate. A student can have no more than one grade less than a B-. It is assumed that students working full time and taking courses on a part-time basis can complete the MPA program in two and one-half years of study.
6. For students without appropriate professional administrative experiences, the degree requires an internship and a total of 39 hours.

Plan Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must complete the two end of program capstone courses (PUA 725 and PUA 729).
**Doctor of Public Policy**

**Plan Description**

This degree is a professional doctorate. It is designed for individuals interested in developing skills in policymaking and policy implementation at all levels of government. Completion of this degree will prepare students to conduct policy analysis, advocate for public policies and community-based solutions, or serve in decision-making positions. Its focus is to integrate what is known about the policy process into a set of skills and abilities so individuals can be competent actors in the policy arena. Course delivery is very structured with courses offered in a very specific sequence on Fridays and Saturdays over five semesters.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

**Plan Admission Requirements**

Application deadlines

Applications available on the UNLV Graduate College website.

All applicants must review and follow the Graduate College Admission and Registration Requirements.

Students may only begin the program in Fall. Only DPP courses taken in sequence at UNLV will be considered for transfer credit.

1. Students must have at least a Masters degree.
2. Students should have at least five years of professional work related experience.
3. An essay explaining student’s interest in the degree and how they believe the degree will aid in their professional development. In addition, the letter must articulate a policy area that the student has a substantive interest in studying. The letter must accompany the application. (An interview will be required before a final admissions decision is made).
4. At least one graduate-level research and/or statistics course (if the student has not had a course in either of these two areas, they may be required to do so before final admissions).
5. Interview.

Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

**Plan Requirements**

Total Credits Required: 51

**Course Requirements**

Core Courses - Credits: 39

PPY 700: Framework for Understanding Public Policy and Agenda Setting

PPY 701: The Basics for Developing Policy Alternatives

PPY 703: Decision-making in government

PPY 704: Models of Policy Implementation

PPY 705: Evaluation: Closing the Loop

PPY 710: Problem Identification and Agendas

PPY 712: Sources of Policy Alternatives

PPY 713: Legislative Decision-making

PPY 714: Necessary Conditions for Policy Implementation

PPY 715: Building a Community of Policy Actors

PPY 716: Designing the Appropriate Evaluation System

PPY 720: Using Data to Define a Problem

PPY 722: Criteria Used to Evaluate Alternatives

PPY 723: Legislative Requirements: Fiscal Notes

PPY 724: Performance Measures and Benchmarks

PPY 725: Tracking Policy into Action

PPY 730: Framing Public Policy Issues

PPY 731: The Fundamentals of Writing Policy Briefs

PPY 733: Building a Persuasive Argument

PPY 734: Writing Clear Goals and Objectives

PPY 735: Translating Results into Performance

PPY 736: Telling the Policy Story

PPY 780: Identifying and Framing the Issue

PPY 781: Developing a Policy (with all the elements)

PPY 782: Resources and Issues in Implementation

PPY 783: Putting it all Together

**Degree Requirements**

Students will complete a 12 credit policy proposal project. The final product will be a paper and presentation that will be evaluated as outlined below:

1. The project will be completed in phases completed in 12 credits of coursework (see degree requirements above). Each phase requires a written paper that demonstrates competency in a specific objective. For example, the first phase requires a student to identify a problem and to frame the issue using both a narrative and data. Faculty will evaluate each phase and use the evaluations as an assessment tool.
2. In the last semester, students will travel to Washington, D.C. to meet with policy experts and members of Congress (staff) to present their policy analysis proposal. Those presentations will be evaluated by a committee of both faculty and policy experts in Washington, D.C. with the presentations serving as a major means of assessing learning outcomes.

**Plan Graduation Requirements**

The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
ECEM 700 - Introduction to Cybersecurity Credits 3
Introduction to the fundamentals of cyber security for large enterprises. Understanding cyber threats, operating system structure, and attacks. Prerequisites: Admission into the Graduate Certificate In Emergency Crisis Management Cyber Security Program.

ECEM 702 - Cyber Law - Digital Intellectual Property & Privacy Credits 3
Introduce the principles of digital intellectual property, online privacy, software copyright and cyber law. Clarify the issues of jurisdiction and the sovereignty of the internet by considering how technology affects the power of regulatory tools.

ECEM 710 - Crisis and Emergency Management Credits 3
Distinguish the principles behind effective approaches for prevention, planning, risk, mitigation, response, and recovery strategies. Recognize the major elements of technical and operational disasters by learning to implement emergency strategies that reduce vulnerabilities.

ECEM 711 - Crisis and Emergency Management Credits 3
Focuses on the evolution of U.S. disaster policy and the practice of emergency management, with particular attention to the roles of local governments and nonprofit agencies in disaster management. The course examines the major policy issues, including the utility of “all-hazard” or comprehensive model of emergency management. Prerequisites: Admission into program.

ECEM 712 - Science of Catastrophes Credits 3
Offers an understanding of the underlying scientific issues that arise from natural, intentional, and technical disasters. Presents information at a managerial level, providing students with a sufficient overview to recognize and understand the complexity of potential catastrophic events which they must plan for and manage. Prerequisites: Admission into the ECEM program.

ECEM 713 - Evolution of Terrorism Credits 3
Focuses on the historical roots of terrorism and stresses importance of understanding the past to adequately prepare for the future. Through a historical perspective, provides basis for and discusses aspects that make contemporary terrorism of today different from traditional terrorism of the past. Formerly: (ECEM 742) Prerequisites: Admission into program.

ECEM 714 - Intergovernmental Affairs Credits 3
Overview and analysis of intergovernmental issues facing public administrators involved in the administrative, regulatory, and political dimensions of emergency management. Provides information about the political system in which emergency managers must navigate and an overview of key governmental agencies and actors. Prerequisites: Admission into the ECEM program.

ECEM 721 - Organizational Leadership Credits 3
Provides introduction to leadership and organizational theory in the context of emergency management. Examines theory and develops a range of skills in a number of interpersonal areas: conflict management, use of power, group dynamics, and leadership and influence. Prerequisites: Admission into program.

ECEM 722 - Community Preparedness Credits 3
Provides an understanding of how communities prepare for disasters through social vulnerability analysis and community capacity analysis. It examines historical, geographical, social, and cultural factors and conditions that put people differentially at risk in the community and require integration and coordination among agencies and organizations. Prerequisites: Module 1 Corequisite: Module 2 courses

ECEM 723 - Human Considerations Credits 3
Explores the human side of emergencies, by analyzing the public response to a terrorist incident, the public health implications of a major incident, the psychological component, and the long-range environmental considerations that must be taken when responding to an incident. Prerequisites: Admission into program.

ECEM 724 - Exercise Design and Response Plan Credits 3
Provides a synthesis of student learning by providing thorough instruction in the fundamentals of simulating disasters, planning and conducting table-top exercises, planning and conducting functional full-scale exercises, as well as drafting organizational response plans. Prerequisites: Module 1 Corequisite: Module 2 courses

ECEM 731 - Risk Assessment, Mitigation and Communication Credits 3
This course explores the use of “risk” in making individual and group decisions. We will explore qualitative and quantitative methods for evaluating risk and develop practices to use such information to improve decision making processes in the context of emergency management. Corequisite: Admission into Program

ECEM 732 - Prevention and Planning Credits 3
This course analyzes the methods by which governmental organizations, private sector entities, and the general public can prevent and prepare for natural, intentional, and technical disasters. It will discuss topics such as vulnerability and threat assessments, resources and capabilities identification/integration, and training and exercise programs. Corequisite/Prerequisite Admission into Program

ECEM 733 - Response and Recovery Credits 3
Studies crisis management responses pertaining to terrorist activities. Covers principles, characteristics, objectives, phases, organizational requirements, command and control issues, planning and coordination, incident site management, crime scene management, and responsibilities and capabilities of federal and state/local agencies for terrorist incidents. Formerly: (ECEM 740) Prerequisites: Admission to program.

ECEM 734 - Research in the Implementation of Concepts in Crisis and Emergency Management Credits 3
This course provides a culminating experience for students to demonstrate proficiency in applying the fundamentals of disaster simulation, table-top exercise formulation and execution, functional full-scale exercise formulation and execution and organizational response plan creation. It will require mastery and integration of previously presented program topics. Corequisite/Prerequisite Admission into Program

ECEM 735 - Concept Implementation & Cyber Lab Credits 3
Analyze the appropriate ways to convey technical operations through verbal and written communication to support organizational operations. Implementing and understanding control framework, policy making and emergency crisis through theoretical analysis. Grading: Letter grade

ENV 601 - Advanced Environmental Toxicology Credits 3
Describes how selected classes of environmental contaminants interact with cellular processes, biochemical reactions, organs and tissues. Influences on individuals, populations and ecosystems. Describes the relationship(s) between toxicants and the multiple ways they interact with the endocrine system. Notes: This course is crosslisted with NRES 432. Credit at the 600-level requires additional work.

ENV 611 - Environmental Risk Management Credits 3
General approaches to solving environmental risk problems. Students develop a “toolbox” of basic risk analysis and management methods, as well as the appropriate role of these methods in effective public and private decision making. Introduces risk analysis methods and explores policy implications of those methods. Notes: This course is crosslisted with ENV 411. Credit at the 600-level requires additional work.

ENV 660 - Environmental Modeling Credits 4
Introduction to dynamic modeling of environmental systems including use of modeling to support management and policy making. Develops systems thinking skills and ability to build system dynamics models. Emphasizes modeling as a framework for environmental analysis and problem solving. Notes: This course is crosslisted with ENV 460. Credit at the 600-level requires additional work.
ENV 680 - Geographic Information Systems for Environmental & Socioeconomic Analysis  Credits 4
Geographic Information Systems for Environmental Management is a course designed for senior level undergraduate or graduate students to build a fundamental understanding of Geographic Information Systems & Science (GIS & Science) for the application to environmental management and socioeconomic analysis. Notes: This course is crosslisted with ENV 480. Credit at the 600-level requires additional work.

ENV 685 - Seminar on Advanced Topics in Spatial Analysis  Credits 1
Students will review and discuss current applied environmental and socioeconomic research in GIS/Spatial Analysis. Readings will be drawn from key journals in the field of environmental studies, regional science, spatial analysis, and urban planning. Students will present and discuss case studies with advanced spatial analysis. Notes: May be repeated to a maximum of three credits. Prerequisites: ENV 480 or ENV 680 or CEE 468, CEE 668 or GEOL 430 or GEOL 630 or equivalent.

ENV 701 - Environmental Science Pro Seminar  Credits 3
Introduction to research approaches appropriate to the environmental sciences. Includes quantitative research design. Development of literature review and thesis/dissertation prospectus. Prerequisites: Graduate standing in Environmental Science program.

ENV 702 - Environmental Problem Solving  Credits 3
Examines the dynamic, interdependent and interactive relationships between human activities and ecosystems. Evaluates opportunities to shift toward more sustainable human behavior. Prerequisites: Graduate standing in environmental science or consent of instructor.

ENV 703 - Environmental Law and Policy Seminar  Credits 3
Substantive aspects of major federal environmental laws and their concomitant regulations, as well as the policy underlying their promulgation and implementation. The present status and implementation of the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, and the comprehensive Environmental Response, Compensation and Liability Act. Examines the policies underlying the existing laws, their derivative regulations, and the changes being considered by Congress for these laws. Prerequisites: Graduate standing in environmental science or consent of instructor.

ENV 711 - Risk Assessment and Risk Management  Credits 3
Principles of risk management as related to exposure to environmental contaminants. Prerequisite: Consent of instructor.

ENV 712 - Environmental Risk Decision Making  Credits 3
Explores interface of technical information, experts, and environmental decision arenas. Major issues include decision making under uncertainty, risk perception, risk communication, and public participation in environmental risk modeling.

ENV 720 - Natural Resource Valuation  Credits 3
Exploration of the valuation literature including traditional, environmental, and experimental economics; physical sciences and philosophy. Methodologic and normative issues. Application and design of valuation tools. Prerequisites: ENV or equivalent.

ENV 725 - Quantitative Methods for Environmental Science  Credits 3
Quantitative research tools specifically developed for environmental science including models, data collection and statistical methods, both univariate and multivariate analyses. Emphasis on methods appropriate to student theses and dissertations.

ENV 749 - Environmental Sciences Teaching Practicum  Credits 3
Introduction to methods and content for environmental science instructors. Tips, methods, styles, scholarship of teaching and learning. Prerequisites: Currently teaching undergraduate ENV course.

ENV 750 - Environmental Studies and Public Policy  Credits 3
Introduces the principles of public policy, science, and technology that shape environmental protection strategies in this nation and abroad. ENV 750 will act as a foundation policy course in the graduate program of the Department of Environmental Studies. Prerequisites: Graduate standing.

ENV 755 - Political Economy of Technology, Environment and Development  Credits 3
Critically examines the roles of political and economic systems as drivers of change in the areas of technology, environment and “development”. Themes include class, conservation, gender, history, natural resources, North-South conflicts, Third World, Trade, and “sustainability” theory and practice. Multicultural literature and cases, and multidisciplinary methods are utilized.

ENV 790 - Internship in Environmental Science  Credits 1 – 3
Individual students complete appropriate internship with private, public or non-profit organization involved in environmental management. Terms to be negotiated with and approved by internship supervisor and Graduate Coordinator. Notes: May be repeated to a maximum of six credits. Grading: S/F.

ENV 791 - Environmental Sciences Examination Preparation  Credits 3
Individual preparation for Masters Degree examination. Notes: May be repeated any number of times, but no more than three credits will count towards degree requirements. Prerequisites: ENV 701.

ENV 792 - Environmental Sciences Professional Paper Research  Credits 3 – 6
Individual research towards an applied professional paper under the direction of a faculty member. Notes: May be repeated any number of times, but no more than six credits will count towards degree requirements. Prerequisites: ENV 701.

ENV 793 - Independent Study in Environmental Science  Credits 1 – 6
Independent study of a selected topic in environmental science. Notes: May be repeated to a maximum of six credits. Prerequisites: Graduate standing in environmental science or consent of instructor.

ENV 794 - Special Topics in Environmental Science  Credits 1 – 3
Selected topic of current interest not covered in any existing course. Notes: May be repeated for a maximum of six credits. Prerequisites: Graduate standing in environmental science or consent of instructor.

ENV 795 - Thesis  Credits 3
Research, analysis, and writing towards completion of thesis and subsequent defense. Notes: May be repeated but only six credits applied to the student’s program. Grading: S/F grading only.

ENV 797 - Directed Readings  Credits 3
Individual research to develop doctoral dissertation prospectus under the direction of a faculty member. Notes: May be repeated any number of times, but no more than six credits will count towards degree requirements. Prerequisites: Admitted to ENV Ph.D. program, ENV 701.

ENV 798 - Dissertation Research  Credits 3 – 6
Research analysis and writing towards completion of dissertation and subsequent defense. Notes: May be repeated up to eighteen credits. Grading: S/F grading only.

PAF 701 - Origins and Development of Public Policy in America  Credits 3
Examines the development of public policy in America especially as it is driven by citizen’s needs. In addition, it examines the impact of public policy on society. Same as PUA 751 Prerequisites: Graduate standing.

PAF 702 - Role of Government in Society  Credits 3
Evaluates the challenges of public policymaking and the moral responsibilities of public actors in a democracy. Looks at the underlying theories used to debate what government should do in society. Prerequisites: Admission into a Ph.D. program or permission of instructor.

PAF 703 - Institutions and Policy Decisions  Credits 3
Explores the classical and contemporary approaches and issues in the study of institutional theories and the formal and informal contexts of democratic governance. Analysis from a rational choice perspective of how individuals within institutions make public policy decisions. Prerequisites: Admission into program.
PAF 704 - Public Affairs as a Profession Credits 1
This course is part of the doctoral program in public affairs and is designed for students to understand potential career opportunities with a Ph.D. in Public Affairs. Understanding the norms and expectations in the profession are addressed, and attention is given to expectations, strategies, and preparation for the job market to better understand what students can do with their Ph.D. degrees in public affairs. Prerequisites: Admitted to a PhD program.

PAF 705 - Intellectual and Historical Foundations in Public Affairs Credits 3
Approaches the evolution of key theories across the field of public affairs. Provides a historical perspective of the intellectual underpinnings of public administration, public management, institutions and organizations, and public policy. Same as No Grading: Letter Grade

PAF 710 - Theory and Design of Research Credits 3
Designed to develop in students the role of theory in designing research applicable to issues studied in public affairs. Beginning course in the Public Affairs Ph. D. program’s analytical studies sequence. Prerequisites: Admission into program.

PAF 711 - Advanced Seminar in Quantitative Research in Public Affairs Credits 3
Students in this course will become familiar with the conceptual foundations and appropriate applications of major social scientific approaches to data-gathering and analysis, with emphasis on quantitative multivariate analysis. Prerequisites: PAF 710 or permission of instructor.

PAF 713 - Qualitative Research in Public Affairs Credits 3
Qualitative methods with emphasis on public policy and public affairs. Grading: Letter grade Prerequisites: PAF 710 and PAF 711 or departmental approval.

PAF 717 - Theory and Practice of Public Sector Survey Research Credits 3
Provides theoretical and applied components of survey research. Students learn the basics of all elements of the survey process. Students will participate in an actual survey. Same as (PUA 727) Prerequisites: Admission to a graduate program.

PAF 752 - Social Policy, the Individual, and Society Credits 3
Examines moral and other dimensions of social policy; frameworks for the analysis and development of social policy; the social construction of social problems; the role of social science in informing social policy; and social policies as manifestations of a society’s values.

PAF 780 - Geographic Information System and Spatial Analysis for Public Affairs Credits 3
Explanatory spatial data analysis methods. Modeling of the spatial structure of various socioeconomic and demographic dynamics using GIS technologies. Using spatial analysis to analyze and develop policy. Grading: Letter grade

PAF 795 - Directed Readings in Public Affairs Credits 3
Student, under the supervision of a graduate faculty member, conducts additional readings on a topic previously explored in doctoral coursework. Notes: Student may repeat the course for a total of six credits. Prerequisites: Completion of core course work and approval of the Graduate Director.

PAF 797 - Independent Research in Public Affairs Credits 3-6
Student, under the supervision of a graduate faculty member, conducts research on a topic within the public affairs program areas. Completion of the research should produce a publishable manuscript. Prerequisites: Completion of core course work and approval of the Graduate Director.

PAF 799 - Dissertation Research in Public Affairs Credits 3 - 6
Research, analysis, and writing on a topic that makes an original contribution of knowledge to the field of public affairs. Upon completion, students defend the dissertation. Students are expected to enroll in six credits a semester until the dissertation is completed; however, only twelve credits may be counted toward the degree. Grading: S/F grading only Prerequisites: Completion of all course work and approval of Committee Chair.

PPY 700 - Framework for Understanding Public Policy and Agenda Setting Credits 2
Introduction to the Doctor of Public Policy. Defines the policy process and identifying the framework for how problems are understood and placed on the policy agenda. Grading: Letter grade Prerequisites: Admission to the Doctor of Public Policy Program or permission of the instructor.

PPY 701 - Developing Policy Alternatives Credits 2
Foundation for translating public problems on the systemic agenda into policy alternatives for government action. Sources, criteria, and methods to evaluate alternatives are examined. Grading: Letter grade Prerequisites: Admission to DPP, PPY 700, PPY 710, PPY 720 and PPY 730.

PPY 704 - Models of Policy Implementation Credits 2
The translation of public policies into actionable programs. Understanding how and why policies succeed or fail in the implementation phase. Grading: Letter grade Prerequisites: Successful completion of PPY 733X

PPY 710 - Problem Identification and Agendas Credits 1
Identification of the different types of agendas in the policy process. Understanding how problems become agenda items. Grading: Letter grade Prerequisites: Admission to the Doctor of Public Policy program. Corequisite: Must have taken or currently enrolled in PPY 700.

PPY 712 - Sources of Policy Alternatives Credits 1
Explores the tools necessary to search for and evaluate the sources of policy alternatives that address specific problems. Grading: Letter grade Prerequisites: Admission to the Doctor in Public Policy Program, PPY 700, PPY 710, PPY 720, PPY 730.

PPY 713 - Policy-making and Legislative Decisions Credits 2
Examines the impact of legislative institutional structure on decisions at all levels of governments. Factors that shape a legislator’s decisions on policy proposals are explored. Grading: Letter grade Prerequisites: Admission into the DPP program, PPY 700, PPY 710, PPY 720, PPY 730.

PPY 714 - Necessary Conditions for Policy Implementation Credits 2
Resources required for the implementation of public policies within the context of formal and informal organizations and communications and why the resources are necessary but not sufficient is analyzed. Grading: Letter grade Prerequisites: PPY 704.

PPY 720 - Using Data to Define a Problems Credits 2
This is the introductory analysis class in the doctor of public policy degree program. Focus is on identifying, analyzing, and tracking community problems using data driven techniques. Grading: Letter grade Prerequisites: Admission to the Doctor of Public Policy Program or approval by instructor.

PPY 722 - Evaluating Policy Alternatives Credits 2
Different criteria and the techniques used to apply these criteria in evaluating different policy alternatives. Grading: Letter grade Prerequisites: Admission to Doctor of Public Policy program.

PPY 723 - Fiscal Notes for Policy-Making Credits 1
Understanding why, how, and when fiscal notes are created and then used by decision-makers. Grading: Letter grade Prerequisites: Admission to the Doctor of Public Policy program, PPY 700, PPY 710, PPY 720, PPY 730.

PPY 730 - Framing Public Policy Issues Credits 2
Only a few problems are considered for the public agenda. Framing is the process that helps understand which problems are considered and how the public responds to policy proposals to solve the proposal. Effective techniques in framing issues is the central focus of study. Grading: Letter grade Prerequisites: Admission to the Doctor of Public Policy program. Must have completed PPY 700.
PPY 780 - Doctoral Capstone Course I  
Credits 2
Identify and analyze a problem related to an area of public policy interest. Analysis serves as the foundation for future policy development. Grading: Letter grade Prerequisites: PPY 700, PPY 710, PPY 720, PPY 730

PPY 781 - Doctoral Capstone Course II  
Credits 2
This course serves as the second of four courses in which students in the Doctorate in Public Policy degree complete their doctoral capstone. Notes: Letter grade Prerequisites: PPY 780

PUA 610 - Grant Writing for Public and Nonprofit Managers  
Credits 1
The course intends to prepare students to understand the grant process and the steps needed to complete a well-developed funding application. Additionally, students will learn about the review process found in grant funding.

PUA 611 - Policy Advocacy and Lobbying  
Credits 1
This course is designed to address advocacy and lobbying issues in the general area of public policy issues and government problems. Special attention is given to how the advocacy process works in the public and nonprofit sectors and policy making bodies and how lobbying techniques and processes can be understood.

PUA 612 - Performance Measurement for Public and Nonprofit Organizations  
Credits 1
This course explores the relationship between performance measurement and citizen participation. Students will explore the movement of involving citizens in the measurement of nonprofit, state and local government performance.

PUA 613 - Leadership and Ethics for Public and Nonprofit Managers  
Credits 1
This course is designed to explore issues related to being an ethical leader in the nonprofit setting. The course will examine ethical reasoning, leadership theories and case studies of leadership successes and failures.

PUA 680 - Geographic Information Systems for Socioeconomic Analysis & Environmental Management  
Credits 3
Geographic Information Systems & Science for the application to socioeconomic analysis and environmental management in an urban setting. Fundamental concepts and technical skills including: the nature of geographic data, database development and management, use of spatial information. Grading: Letter grade

PUA 701 - Governance and the Urban Community  
Credits 3
Examines the fundamental theories, structures, and processes of governance in Urban Communities in the United States. Explores the constitutional foundations and functions of legislative, administrative, and legal institutions. Covers topics such as federalism, public-private relations, and public administration. Same as SW 763 Prerequisites: Enrollment in the M.S.W. or M.P.A. program or consent of instructor.

PUA 703 - Seminar In Organization Theory  
Credits 3
Analyzes organizations as functioning social units. Emphasis on organization design, structure, processes, and external relationships. Formerly: PUA 713

PUA 705 - Public Goods and Public Finance  
Credits 3
Provides an overview of public finance. Introduces concepts (such as market failures, externalities, and public goods) and tools for analyzing the proper role of government in the economy. Addresses issues of public resource allocation and taxation. Formerly: PUA 704 Same as SW 765 Prerequisites: Enrollment in the MSW, MPA or ULD program or consent of instructor

PUA 707 - Law and Public Policy  
Credits 3
Course provides a basic understanding of how public policy is made and implemented in a federal system. The stages of the policy process are studied. Attention given to the different actors in the policy process especially the bureaucracy.

PUA 708 - Organizations and Organizational Behavior  
Credits 3
This course provides a broad introduction to the structure and function of organizations and the behavior of people in them, focusing on public and nonprofit organizations. Formerly: PUA 718 Same as SW 767 Prerequisites: PUA 701 or consent of instructor.

PUA 711 - Seminar in Administrative Behavior  
Credits 3
Stresses the development of knowledge and skill in understanding the role of the administrator in the context of public agencies. Emphasis given to strategies of policy making, policy implementation and understanding the factors that bear upon the administrator acting in these capacities.

PUA 715 - Administrative Law  
Credits 3
Branch of law that deals with public administration. Examines authority upon which administrative agencies operate and limits necessary to control agency action. Attention given to procedures governing rule making, administrative adjudication, and judicial review. Prerequisites: PUA 701 or consent of instructor.

PUA 718 - Career Development and Performance Appraisal in the Public Sector  
Credits 3
Investigates how and why government agencies should develop career-stage appropriate employee development programs. Students gain greater appreciation of public sector employee evaluation systems. Formerly: PUA 728 Prerequisites: PUA 708 or consent of instructor.

PUA 721 - Quantitative Methods for Public Administration  
Credits 3
Quantitative techniques used in program design and evaluation. Coverage includes such topics as measurement, tests of significance, and measures of association. Includes descriptive and inferential statistics and forecasting methods. Formerly: PUA 722 Prerequisites: PUA 701 or consent of instructor.

PUA 723 - Research and Analytical Methods  
Credits 3
Examines quantitative and qualitative research methods used to answer questions and test hypotheses in public and non-profit settings. Includes identifying and reviewing scholarly literature; formulating research questions; selecting appropriate design, data collection and data analysis. Topics include causal and descriptive designs, interview and survey methods, and descriptive and inferential statistics. Prerequisites: PUA 701 or consent of instructor.

PUA 725 - Policy Analysis and Program Evaluation  
Credits 3
Introduces students to the practical aspects of program evaluation, and the methodologies employed to analyze a program and to conduct an evaluation in the public and nonprofit sectors. Prerequisites: PUA 721 and PUA 723 or consent of instructor.

PUA 727 - Theory and Practice of Public Sector Survey Research  
Credits 3
Provides the theoretical and applied components of survey research. Students learn the basics of all elements of the survey process. Same as PAF 717 Notes: Students will participate in an actual survey. Prerequisites: Admission to a graduate program.

PUA 729 - MPA Capstone Experience  
Credits 3
The purpose of this class is to provide the knowledge and skills needed to construct and critique evaluation designs, collect and analyze data to test the effects of government programs, and address many of the questions and issues that arise in the process of evaluating program impacts. Prerequisites: PUA 725 or Consent of the Graduate Coordinator.

PUA 740 - Urban Administration  
Credits 3
Urban management approached from the viewpoint of the chief administrator. Some consideration given to the city as an organic economic, political and social institution. Emphasis on administrative exercise of leadership decision making and various functional activities. Prerequisites: PUA 701 or consent of instructor.
PUA 741 - Leading and Assessing Change in Organizations Credits 3
Understanding change, how to facilitate the process and measuring success are important knowledge and skills for leaders, followers, policy makers, program evaluators and researchers. This course introduces well-established change constructs, theories, models and measures, their applications in various settings. This course also explores research methods to study change processes.

PUA 745 - Administration in a Federal and Intergovernmental Perspective Credits 3
Provides students with understanding of the issues and problems of administering public programs in a federal system. Emphasis placed on how all levels of governments work together. Studies role of grants, mandates, and state/federal statutes on administrators. Formerly: PUA 706 Same as ECEM 714

PUA 749 - Ethics in Public Administration Credits 3
Ethics in Public Administration Grading: Letter Grade

PUA 750 - Education Policy Credits 3
Examines governmental policy and structure affecting elementary and secondary school finance, administration, and management. Reviews the history and impact of various structural and policy reforms proposed from 1950 to the present. Analyzes structure, policy, and reforms in terms of equity, effectiveness in facilitating student achievement, and other criteria. Same as (PAF 750)

PUA 751 - Origins and Development of Public Policy in America Credits 3
Examines the development of public policy in America especially as it is driven by citizen’s needs. In addition, it examines the impact of public policy on society Same as: PAF 701 Prerequisites: Graduate standing.

PUA 756 - Policy Implementation Credits 3
Provides students an introduction to current models of implementation and the means for assessing both theory and methods; provides a bridge between the literature on policy analysis and program evaluation; offers students the opportunity to apply theoretical frameworks to practical situations.

PUA 761 - Introduction to Workforce Education Credits 3
Overview of history, philosophy and areas within the workforce education field. Formerly: EDW 730

PUA 762 - Needs Assessment and Evaluation Credits 3
Discusses approaches to identifying performance problems in organizations and determining appropriate interventions. Emphasis/ focus on assessment, evaluation, and measurement of workplace learning and performance activities. Formerly: EDW 734

PUA 763 - Facilitation Skills for Workplace Learning and Performance Credits 1-3
Introductory course providing overview of roles and functions of the training professional. Ample opportunities to practice facilitation skills. Topics include evolution of training, current paradigms in training and development, media development, and delivery techniques. May be repeated to a maximum of 3 credits. Formerly: EDW 737

PUA 764 - Technologies for the Workplace Credits 1-3
Applications of -and implications for the use emerging technology in the workplace. May be repeated for a maximum of 3 credits.

PUA 770 - Nonprofit Management and Theories of the 3rd Sector Credits 3
Examines the legal and other definitions of the 3rd sector, the sector’s distinctive values, its contributions to civil society, its role vis-a-vis the government and business sectors, and current conditions in and challenges for the sector. In addition, the course will serve as an introduction the principal skills, knowledge, and abilities that are involved in the management of nonprofit organizations.

PUA 771 - Grant Writing and Evaluation Field Study Credits 3
This course is a field study in grant-making organizations. There will be an academic component discussing the methods and attributes of grant makers. This knowledge will be used in an applied component in which students will engage in the work commonly found in grant making organizations.

PUA 772 - Grant Evaluation and Strategic Allocation Field Study Credits 3
Field study in grant-making organizations. There will be an academic component discussing the methods and attributes of grant makers. Specific attention will be paid to the work of program evaluations, strategic philanthropic planning, donor advisement, donor relationship building, and grant management and reporting. Prerequisites: May be repeated to a maximum of six credits.

PUA 774 - Community Outreach and Volunteerism Credits 3
Provides a general overview of Volunteer Management as it relates to the field of public administration. Introductory course emphasizes non-profit as part of the MPA program and introduces students to the basic concepts and issues surrounding the development and management of community based volunteer programs.

PUA 775 - Strategic Planning and Program Evaluation for Nonprofits Credits 3
Provides the capability to understand, plan, implement and evaluate strategies and programs so as to take advantage of opportunities and effectively manage challenges facing their organization. Teaches students to analyze how strategic planning and evaluation strategies differ from those used in the private sector. Emphasis is on management strategies that distinguish nonprofits from for-profits and public agencies and the challenges facing each.

PUA 776 - Development for Nonprofit Managers Credits 3
Introduction to fundraising for nonprofit organizations, including annual giving, major gifts, planned giving, and campaigns.

PUA 790 - Internship Program in Public Administration Credits 1 – 6
Graduate students have a work assignment in a public agency at the national, state, or local governmental level and make regular reports on work activities and assigned readings. Formerly: PUA 709 Prerequisites: PUA 701 or consent of department

PUA 792 - Current Issues in Public Administration Credits 1 – 6
Examination of timely issues in the field with special attention to the needs of the practitioner. Notes: May be repeated to a maximum of nine credits.

PUA 798 - Research in Public Administration Credits 1 – 6
Individual research projects under the direction of a faculty member. Notes: May be repeated to a maximum of six credits. Prerequisites: PUA 701 and PUA 723 and/or consent of instructor.

ULD 700 - Special Topics in Urban Leadership Credits 1 - 3
This course addresses topics related to current issues in urban leadership. May be repeated with new content. Maximum credit 6 units.

ULD 701 - Leading Ethical Organizations Credits 3
This course introduces theoretical frameworks related to understanding the dynamics of self, the organization and the norms and values associated with ethical leadership of state and governmental agencies. Students will develop an understanding of how leaders in disparate organizations can affect climate and culture to facilitate inter-organizational cooperation and collaboration. Formerly: EDA 701. Corequisite: ULD 705

ULD 705 - Leadership Field Experience I Credits 1 – 3
Allows graduate students to participate in and observe the culture, climate, and organizational structure of a variety of community agencies, including schools. Open only to, and required of, students pursuing a M.A. in Urban Leadership. Formerly: EDA 705. Corequisite: ULD 701
ULD 720 - Urban Governance  
Credits 3  
Urban governance refers to the coordination of activities among organizations, institutions, and individuals within and between urban communities. Examine how these structures constrain and enable collective decision making about critical urban issues.

ULD 722 - Urban Issues  
Credits 3  
Examine contemporary issues that challenge urban communities. Topics include social equity, community resilience, and public health. Address issues underlying the Community Engagement Legacy Project. Same as: PUA 723

ULD 730 - Leading in Diverse Communities  
Credits 3  
The growth and development of a dynamic community is enhanced when leaders of schools and affiliated community agencies demonstrate cultural competence. This course focuses on the knowledge and skills leaders need work in cross-cultural situations, to build effective collaborative relationships, and to mobilize community resources. Formerly: EDA 730.

ULD 731 - Urban Development  
Credits 3  
Challenges faced by the contemporary urban community and related issues of development. The development process, particularly as it relates to housing, infrastructure, and community/economic development.

ULD 732 - Leading a Learning Organization Through Community Building  
Credits 2  
This course focuses on how to work effectively with diverse families and community members in: assessing and responding to diverse community interests and needs; sharing leadership with stakeholders; motivating and mobilizing community resources; examining relationships between schools and communities from demographic and political perspectives.

ULD 735 - Design Thinking for Urban Issues  
Credits 3  
Unique problem solving approach that emphasizes innovation in the public sector. Introduction to design thinking with specific application to urban issues.

ULD 737 - From Analytics to Action: How to use Data  
Credits 3  
Becoming advanced consumers of data. How to interpret different types of analysis and how the findings from statistical models and program evaluations can support different decision processes. Introduction to different types of data applications including big data options.

ULD 740 - Instructional Seminar: Designing & Monitoring the Instructional Program  
Credits 1  
This seminar focuses on instructional strategies to meet the needs of all learners, with an emphasis on developing systems to guide instructional supervision through the use of research-based instructional frameworks.

ULD 742 - Social Media and Communication Technology  
Credits 3  
Social media encompasses a wide range of technological platforms. Thoughtful implementation of social media options. Determine, when and how to best employ a social media strategy in a data and technology rich environment. Formerly: EDA 742. Notes: May be repeated to a maximum of nine credits. Prerequisites: Consent of program.

ULD 744 - Leading and Assessing Change in Organizations  
Credits 3  
Change is a constant demand and required activity in all organizations. This course examines research, theory and strategies for leading change processes that make the difference in having success or failure.

ULD 750 - Leadership in Urban Contexts  
Credits 3  
To identify and assess existing personal leadership traits in the context of urban environments. To develop unique personal leadership skills and strategies for addressing urban opportunities and challenges. Prerequisites: Admission into the Master of Arts - Urban Leadership program.

ULD 751 - Education Law and Public Policy Seminar: Student Rights and Responsibilities  
Credits 1  
Expands student knowledge and application of applicable federal, state, and local requirements and public policy for student rights and responsibilities through a carefully designed series of case studies intended to develop the student’s capacity to create a safe and productive school culture.

ULD 752 - Developing and Nurturing Teams  
Credits 3  
Learn strategies and skills for developing effective small-teams for project-based work. Prerequisites: Admission to the Master of Arts - Urban Leadership program.

ULD 753 - Education Law and Public Policy Seminar: Resource Management for Student Learning  
Credits 2  
Expands knowledge and develops skill in the management of fiscal and human resources of a school to achieve greater student performance. Case studies and simulations will be employed to develop resource management knowledge and skills. This course contributes to the capstone experience required for completion of the degree program.

ULD 754 - Collaborative Leadership  
Credits 3  
Using a series of case studies to assess and develop potential leadership strategies for collaborative environments. Prerequisites: Admission to the Master of Arts - Urban Leadership program.

ULD 755 - Education Law and Public Policy Seminar: Exceptional and At-Risk Students  
Credits 1  
This seminar addresses applicable federal, state, and local requirements and public policy for providing services to exceptional and at-risk student populations through study of contemporary case law, case study analysis, and evidence-based program design and supervision.

ULD 757 - Education Law and Public Policy Seminar: Teacher Evaluation  
Credits 1  
Expands knowledge and application of applicable federal, state, and local requirements and public policy for high stakes assessment of teachers. Contract management, employee discipline and recognition, and procedural expectations for insuring fairness and equity will be addressed.

ULD 780 - Community Engagement Legacy Project  
Credits 1-9  
To synthesize and further develop core coursework. To demonstrate leadership skills, innovative problem-solving skills, strategic planning, and collaborative management. Notes: May be repeated to a maximum of nine credits.

ULD 789 - Leadership Field Experience III  
Credits 1 – 3  
This capstone course requires students to connect knowledge bases with practical applications of leadership. Projects are individually structured under the joint guidance of university faculty and an organizational executive. Projects may address an organizational problem, an activity that furthers the organizational mission or the development of proactive community partnerships. Formerly: EDA 789.

WDL 780 - Leadership in Workforce Education and Development  
Credits 3  
Provides students with the knowledge, skills, and dispositions necessary to undertake leadership positions in diverse educational settings and organizations. Emphasis on modern leadership practices and techniques through the study of accepted theory and applied principles. Formerly: EDW 780.

WDL 785 - Global and Diversity Perspectives in Workforce Development  
Credits 3  
This course examines workforce development systems and their effectiveness in developing human capital from a global perspective. Human resource management trends and the challenges a global workforce poses for human resource practices are also discussed. Formerly: EDW 785. Prerequisites: Consent of instructor.
School of Social Work

The philosophy of the School of Social Work stresses the importance of both sound academic education and rich practical experience in preparing “advanced social work practitioners.” Faculty members bring to their positions a range of knowledge and applied experiences, and they are active in scholarly research, consultation, and practice in their respective fields.

Carlton Craig, Ph.D., Director
Mary-Ann Overcamp-Martini, Ph.D., Graduate Coordinator

Social Work Faculty

Director
Craig, Carlton - Full Graduate Faculty Professor; B.A., Bowling Green State University, M.S.S.A., Case Western Reserve University, Ph.D., University of North Carolina. Rebel since 2016.

Graduate Program Coordinator
Overcamp-Martini, Mary-Ann - Full Graduate Faculty Associate Professor in Residence; B.A., College of Mount St. Joseph-on-the-Ohio; M.P.A., University of Wyoming; M.S.W., Ph.D., University of Utah. Rebel since 2002

Graduate Faculty
Albert, Vicky - Full Graduate Faculty Professor; B.S.W., M.S.W., University of Illinois; Ph.D., University of California, Berkeley. Rebel since 1998.

Bergquist, Kathleen Leilani Ja Sook - Full Graduate Faculty Associate Professor; B.A., Christopher Newport University, M.S.W., Norfolk State University, Ph.D., College of William and Mary; J.D., Boyd School of Law, University of Nevada, Las Vegas. Rebel since 2004.

Epstein, William M. - Full Graduate Faculty Professor; B.A., Brooklyn College; M.S.W., University of Pittsburgh; D.S.W., Columbia University. Rebel since 1992.

Owens, Sandra - Full Graduate Faculty Associate Professor; B.A., M.S.W., University of Nevada, Las Vegas; Ph.D., University of California, Berkeley. Rebel since 1998.

Sharma, Satish - Full Graduate Faculty Professor; B.A., M.A., Panjab University; M.S.W., University of Iowa; Ph.D., Ohio State University. Rebel since 1982.

Sun, An-Pyung - Full Graduate Faculty Professor; B.A., National Chung-Shing University; M.S.W., University of Illinois, Champaign-Urbana; Ph.D., Case Western Reserve University. Rebel since 1997.

Professor Emeriti
Denby Brinson, Ramona Professor; B.S.W., Arizona State University; M.S.W., University of Nevada, Las Vegas; Ph.D., The Ohio State University. UNLV Emeritus 1998-2017.

Langston, Esther Professor; B.A., Wiley College; M.S.W., San Diego State University; Ph.D., University of Texas. UNLV Emeritus 1970.

Oakes, Margaret Associate Professor; B.A., University of Arizona; M.S.W., California State University, Fresno; Ph.D., University of Texas at Austin. UNLV Emeritus 1997-2010.

Rubin, Gerald K. Associate Professor; B.A., University of Minnesota; M.S.W., Ph.D., University of Denver. UNLV Emeritus 1976-1998.

Thompson, Joanne Professor; B.A., LaGrange College, M.S.W., University of Arkansas, Ph.D., Rutgers University. Rebel since 2003.
Master of Social Work

This program is accredited by: CSWE. More information can be found at: unlv.edu/provost/vpaa/accreditation

Plan Description

The Master of Social Work (M.S.W.) program at UNLV prepares students for professional social work careers in the areas of direct practice with individuals, families and groups, and in management and community practice. The mission of the M.S.W. program is to educate students to work with populations in urban settings, utilizing generalist, problem solving, empowerment, and social justice approaches. Special attention is given to the mastery of multiple practice issues, attendant upon the present plural and diverse populations in today’s American society.

Students may elect either “direct practice” or “management and community practice” as their area of concentration. The direct practice concentration prepares students for advanced social work practice with individuals, families, and groups. The management and community practice concentration prepares students for advanced administrative, managerial, and community practice in human service organizations and agencies at the local, state and national levels.

Students are provided academic knowledge related to the theory, research, and major substantive issues in the field and practice experience through practicum experiences in a variety of private and public agency environments. Field practicum placement is concurrent with classroom instruction and is an integral part of the program. A wide variety of field practicum agencies are available, and students are placed in the field under the guidance of the Field Director and in cooperation with the professional supervisory staff from local social service agencies. The program seeks to encourage and accommodate varied student interests, abilities, and career goals. Partnerships and on-going collaborative relationships between the school faculty and the service agencies facilitate a rich blend of academic and community-based experience for our students.

The M.S.W. program is designed to be consistent with the accreditation standards of the field’s national professional accrediting body, the Council on Social Work Education (CSWE). The program is fully accredited by the Council on Social Work Education. The School of Social Work does not discriminate on the basis of race, color, gender, age, creed, ethnic background, national origin, disability, and political, religious, or sexual orientation.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements

Application deadlines

Applications available on the UNLV Graduate College website.

An applicant must have the following:

1. A minimum overall grade point average of 2.75 on a 4.00 scale for the bachelor’s degree. An earned bachelor’s degree in social work from an accredited program or a degree in another field.

2. Completion of the following liberal arts courses: English composition or literature courses; college-level mathematics or statistics course; courses in social sciences, preferably in psychology, sociology, and anthropology; a science course; one course in fine arts or humanities; a course in history or political science; a course or content in the biological determinants of human behavior or human biology; a course or content in diverse cultures, social conditions, or social problems. The applicant must not have more than two course deficiencies to be admitted to the program, and those must be cleared by the end of the first semester of M.S.W. studies.

3. An applicant must submit an application for admission, transcripts of all college-level work, and the application fee to the Graduate College along with three letters of recommendation (as specified below), a personal statement, and transcripts of all college-level work.

4. The applicant must submit to the School of Social Work three letters of recommendation (on the prescribed form) that reflect the applicant’s academic experience, general abilities, and interest and motivation in pursuing a graduate degree in social work. One of these letters should be from the most recent employer in a social work position (if applicable), and one should be from an instructor (social work instructor, if applicable) from the last college attended. The third letter should be from a person who is familiar with the applicant’s overall qualifications, experience, and interest in pursuing the M.S.W. degree.

5. Students with a BSW degree from a program accredited by the Council of Social Work Education may be admitted through Advanced Standing at the determination of the MSW Program. Applicants must have an undergraduate GPA of 3.25 overall, with preference for post-BSW practice experience of 5 years. Applicants will be required to complete the Advanced Standing Summer Term of 4 required courses completed to a 3.0 GPA or above. Students who do not have a 3.0 at the end of the Summer Term will not be allowed to continue into the concentration year of the MSW Program but will be allowed to enter the foundation year of the 63-credit MSW Program.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

Admission to the MSW Program cannot be deferred. The student must also enroll in the program to which admission is offered (i.e., a particular concentration, full or part-time). Students must make any request for a change in status in writing and in accordance with School procedure. Also considering the rigor of the program, students must evaluate if their individual circumstances and resources warrant applying for the full-time or part-time program. Students working 20 hours a week or more are strongly advised to apply to the part-time program.
Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.

Plan Requirements

Subplan 1 Requirements: Capstone Track

Total Credits Required: 63

Course Requirements

Required Courses – Credits: 27
- SW 701 - Social Welfare Policy I
- SW 703 - Social Welfare Policy II
- SW 715 - Human Behavior and the Social Environment I
- SW 716 - Social Work Research I
- SW 719 - Foundation Practicum I
- SW 720 - Foundation Practice Methods I
- SW 726 - Social Work Research II
- SW 729 - Foundation Practicum II
- SW 730 - Macro Theory and Practice

Concentration Courses – Credits: 24

Complete 24 credits of coursework from one of the following concentration areas:

Direct Practice

  Direct Practice
  - SW 707 - Contemporary Issues in Diversity
  - SW 739 - Field Practicum I (DP)
  - SW 740 - Direct Practice I
  - SW 747 - DSM: Assessment and Diagnosis
  - SW 749 - Field Practicum II (DP)
  - SW 750 - Direct Practice II
  - SW 776 - Legal and Ethical Issues in Social Work
  - SW 785 - Special Topics in Advanced Policy

Management and Community Practice

  SW 707 - Contemporary Issues in Diversity
  - SW 759 - Field Practicum I (MCP)
  - SW 760 - Management and Community Practice I
  - SW 765 - Financial Management and Resource Development
  - SW 769 - Field Practicum II (MCP)
  - SW 770 - Management and Community Practice II
  - SW 775 - Advanced Policy Practice

  SW 776 - Legal and Ethical Issues in Social Work

Elective Courses – Credits: 9

Complete a minimum of 9 credits of Social Work electives, or other advisor-approved graduate-level courses.

Capstone Course – Credits: 3
- SW 795 - Capstone Seminar

Degree Requirements

Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.

Graduation Requirements

1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.

2. Successfully complete the capstone course.

Subplan 2 Requirements: Thesis Track

Total Credits Required: 63

Course Requirements

Required Courses – Credits: 27
- SW 701 - Social Welfare Policy I
- SW 703 - Social Welfare Policy II
- SW 715 - Human Behavior and the Social Environment I
- SW 716 - Social Work Research I
- SW 719 - Foundation Practicum I
- SW 720 - Foundation Practice Methods I
- SW 726 - Social Work Research II
- SW 729 - Foundation Practicum II
- SW 730 - Macro Theory and Practice

Concentration Courses – Credits: 24

Complete 24 credits of coursework from one of the following concentration areas:

Direct Practice

  Direct Practice
  - SW 707 - Contemporary Issues in Diversity
  - SW 739 - Field Practicum I (DP)
  - SW 740 - Direct Practice I
  - SW 747 - DSM: Assessment and Diagnosis
  - SW 749 - Field Practicum II (DP)
  - SW 750 - Direct Practice II
  - SW 776 - Legal and Ethical Issues in Social Work
  - SW 785 - Special Topics in Advanced Policy

Management and Community Practice

  SW 707 - Contemporary Issues in Diversity
  - SW 759 - Field Practicum I (MCP)
  - SW 760 - Management and Community Practice I
  - SW 765 - Financial Management and Resource Development
  - SW 769 - Field Practicum II (MCP)
  - SW 770 - Management and Community Practice II
  - SW 775 - Advanced Policy Practice

  SW 776 - Legal and Ethical Issues in Social Work
  - SW 785 - Special Topics in Advanced Policy
Management and Community Practice
- SW 707 - Contemporary Issues in Diversity
- SW 759 - Field Practicum I (MCP)
- SW 760 - Management and Community Practice I
- SW 765 - Financial Management and Resource Development
- SW 769 - Field Practicum II (MCP)
- SW 770 - Management and Community Practice II
- SW 775 - Advanced Policy Practice
- SW 776 - Legal and Ethical Issues in Social Work

Elective Courses – Credits: 6
Complete a minimum of 6 credits of Social Work electives, or other advisor-approved graduate-level courses.

Thesis – Credits: 6
- SW 796 - Thesis

Degree Requirements
1. Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.
2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted PDF copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Subplan 3 Requirements: Advanced Standing Capstone Track
Total Credits Required: 42

Course Requirements

Bridge Courses – Credits: 12
- SW 707 - Contemporary Issues in Diversity
- SW 734 - Advanced Standing Practice Seminar
- SW 736 - Advanced Standing Integrative Seminar
- SW 776 - Legal and Ethical Issues in Social Work

Concentration Courses – Credits: 18
Complete 18 credits of coursework from one of the following concentration areas:

Direct Practice
- SW 739 - Field Practicum I (DP)
- SW 740 - Direct Practice I
- SW 747 - DSM: Assessment and Diagnosis
- SW 749 - Field Practicum II (DP)
- SW 750 - Direct Practice II
- SW 785 - Special Topics in Advanced Policy

Management and Community Practice
- SW 759 - Field Practicum I (MCP)
- SW 760 - Management and Community Practice I
- SW 765 - Financial Management and Resource Development
- SW 769 - Field Practicum II (MCP)
- SW 770 - Management and Community Practice II
- SW 775 - Advanced Policy Practice

Elective Courses – Credits: 9
Complete a minimum of 9 credits of Social Work electives, or other advisor-approved graduate-level courses.

Capstone Course – Credits: 3
- SW 795 - Capstone Seminar

Degree Requirements
Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. Successfully complete the capstone course.
Subplan 4 Requirements: Advanced Standing Thesis Track

Total Credits Required: 42

Course Requirements

Bridge Courses – Credits: 12
- SW 707 - Contemporary Issues in Diversity
- SW 734 - Advanced Standing Practice Seminar
- SW 736 - Advanced Standing Integrative Seminar
- SW 776 - Legal and Ethical Issues in Social Work

Concentration Courses – Credits: 18
Complete 18 credits of coursework from one of the following concentration areas:

Direct Practice
- SW 739 - Field Practicum I (DP)
- SW 740 - Direct Practice I
- SW 747 - DSM: Assessment and Diagnosis
- SW 749 - Field Practicum II (DP)
- SW 750 - Direct Practice II
- SW 785 - Special Topics in Advanced Policy

Management and Community Practice
- SW 759 - Field Practicum I (MCP)
- SW 760 - Management and Community Practice I
- SW 765 - Financial Management and Resource Development
- SW 769 - Field Practicum II (MCP)
- SW 770 - Management and Community Practice II
- SW 775 - Advanced Policy Practice

Elective Courses – Credits: 6
Complete a minimum of 6 credits of Social Work electives, or other advisor-approved graduate-level courses.

Thesis – Credits: 6
- SW 796 - Thesis

Degree Requirements
1. Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.
2. In consultation with his/her advisor, a student will organize a thesis committee of at least three departmental members. In addition, a fourth member from outside the department, known as the Graduate College Representative, must be appointed. An additional committee member may be added at the student and department’s discretion. Please see Graduate College policy for committee appointment guidelines.

Graduation Requirements
1. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
2. The student must submit and successfully defend his/her thesis by the posted deadline. The defense must be advertised and is open to the public.
3. After the thesis defense, the student must electronically submit a properly formatted pdf copy of their thesis to the Graduate College for format check. Once the thesis format has been approved by the Graduate College, the student will submit the approved electronic version to ProQuest. Deadlines for thesis defenses, format check submissions, and the final ProQuest submission can be found here.

Plan Graduation Requirements
Refer to your subplan for Graduation Requirements.

Subplan 3 Requirements: Advanced Standing Capstone Track
Subplan 4 Requirements: Advanced Standing Thesis Track

Dual Degree: Master of Social Work & Juris Doctor

Plan Description
The Juris Doctor/Master of Social Work (JD/MSW) dual degree program allows students to be admitted to both programs and to pursue the two degrees concurrently.

Pursued individually, the JD requires the completion of 89 credit hours and the MSW requires the completion of 63 credit hours. The dual MSW/JD degree would require the completion of 80 law credit hours and 54 social work credit hours, as 9 hours of law courses are accepted toward the MSW and 9 hours of social work courses are accepted toward the JD.

For more information about your program, including your graduate program handbook and learning outcomes, please visit the Degree Directory.

Plan Admission Requirements
Application deadlines
Applications available on the UNLV Graduate College website.

Applicants to the JD/MSW degree program must apply for, and gain admission to, both the Boyd School of Law JD program and to the School of Social Work MSW program, respectively. Admission requirements are the same as those listed under the regular JD and MSW programs.

While applications from current students in either program will be considered, students normally should seek and satisfy admission to enter both programs upon entering the university. However, petitions requesting admission to the dual JD/MSW program from students at more advanced stages in either program will be considered. Those interested are encouraged to submit a request for permission to participate in the program,
along with applications for admission, at the earliest possible time. Contact the William S. Boyd School of Law at (702) 895-2440 and the UNLV School of Social Work programs at (702) 895-3311 for further information on admissions requirements.

All domestic and international applicants must review and follow the Graduate College Admission and Registration Requirements.

*Students are accepted into a degree program as described in the Graduate Catalog. The faculty and corresponding sub-disciplines and sub-plans within the described programs are subject to change at any time.*

**Plan Requirements**

*See Subplan Requirements below.*

**Subplan 1 Requirements: Direct Practice Concentration**

Total Credits Required: 134

**Course Requirements**

Total Credits Required for the Social Work M.S.W.: 54

**Required Courses – Credits: 27**

- SW 701 - Social Welfare Policy I
- SW 703 - Social Welfare Policy II
- SW 715 - Human Behavior and the Social Environment I
- SW 716 - Social Work Research I
- SW 719 - Foundation Practicum I
- SW 720 - Foundation Practice Methods I
- SW 726 - Social Work Research II
- SW 729 - Foundation Practicum II
- SW 730 - Macro Theory and Practice

**Direct Practice Courses – Credits: 24**

- SW 707 - Contemporary Issues in Diversity
- SW 739 - Field Practicum I (DP)
- SW 740 - Direct Practice I
- SW 747 - DSM: Assessment and Diagnosis
- SW 749 - Field Practicum II (DP)
- SW 750 - Direct Practice II
- SW 776 - Legal and Ethical Issues in Social Work
- SW 785 - Special Topics in Advanced Policy

**Capstone Course – Credits: 3**

- SW 795 - Capstone Seminar

Total Credits Required for the Juris Doctor: 80

**Required Courses – Credits: 44**

**Directed Electives at Law School – Credits: 12**

**Degree Requirements**

Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.

**Graduation Requirements**

*See Plan Graduation Requirements below.*

**Subplan 2 Requirements: Management and Community Practice Concentration**

Total Credits Required: 134

**Course Requirements**

Total Credits Required for the Social Work M.S.W.: 54

**Required Courses – Credits: 27**

- SW 701 - Social Welfare Policy I
- SW 703 - Social Welfare Policy II
- SW 715 - Human Behavior and the Social Environment I
- SW 716 - Social Work Research I
- SW 719 - Foundation Practicum I
- SW 720 - Foundation Practice Methods I
- SW 726 - Social Work Research II
- SW 729 - Foundation Practicum II
- SW 730 - Macro Theory and Practice

**Management and Community Practice Courses – Credits: 24**

- SW 759 - Field Practicum I (MCP)
- SW 760 - Management and Community Practice I
- SW 765 - Financial Management and Resource Development
- SW 769 - Field Practicum II (MCP)
- SW 707 - Contemporary Issues in Diversity
- SW 770 - Management and Community Practice II
- SW 775 - Advanced Policy Practice
- SW 776 - Legal and Ethical Issues in Social Work

**Capstone Course – Credits: 3**

- SW 795 - Capstone Seminar

Total Credits Required for the Juris Doctor: 80

**Required Courses – Credits: 44**

**Free Electives at Law School – Credits: 24**

**Directed Electives at Law School – Credits: 12**
Degree Requirements
Complete course work with a minimum overall grade point average of 3.00 on a 4.00 scale.

Graduation Requirements
See Plan Graduation Requirements below.

Plan Graduation Requirements
1. Students cannot graduate from one portion of the dual degree until the requirements for both are met. Students must apply to graduate from both programs for the same semester.
2. The student must submit all required forms to the Graduate College and then apply for graduation up to two semesters prior to completing his/her degree requirements.
3. Successfully complete the capstone seminar.

<table>
<thead>
<tr>
<th>SW 602 - The Effects of War on Individuals and Communities</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>The course examines the effects that overwhelming and horrifying events in war have on the individual and their social environment. A variety of countries at war will be examined through film, literature, journal articles, and the internet to help understand the settings and real life outcomes of war. Notes: This course is crosslisted with SW 402. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 661 - Seminar: Contemporary Issues in Social Welfare</th>
<th>Credits 1-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-depth examination of current major issues in social programs and policies, and consideration of alternatives. Notes: This course is crosslisted with SW 461. Credit at the 600-level requires additional work. May be repeated.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 671 - Advanced Seminar: Special Problems</th>
<th>Credits 1-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic to be selected by instructor. Notes: This course is crosslisted with SW 471. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 672 - Principles of Family Counseling</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seminar designed to study the principles, process, and skills required for helpers to assist family members in coping with dysfunction in the family unit. Notes: This course is crosslisted with SW 472. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 674 - Grant Writing and Management</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prepares current health and human service professionals to develop and write effective grant proposals. Provides a basic overview and review of the grant writing process. This course helps students generate program ideas, plan and develop funding proposals to support those ideas, and seek appropriate funding sources. Notes: This course is crosslisted with SW 474. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 675 - Treatment of Addictions</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Five elements covered include: classification of drugs, phases of treatment of addictions, basic individual and group treatment skills, contents of various treatment approaches, and the treatment guidelines regarding working with special populations, including women, adolescents, elderly, etc. Notes: This course is crosslisted with SW 475. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 678 - Global Child Welfare</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>This course addresses the major challenges faced by children and their families globally and prepares the student for further study or action in specific areas of concern. Each content area (poverty, child labor, exploitation, etc.) will cover incidence, political, social and cultural interplay, current response, and recommended future strategies. Notes: This course is crosslisted with SW 478. Credit at the 600-level requires additional work. Prerequisites: SW 715 and SW 735 or consent of instructor.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 693 - Gandhian Welfare Philosophy and Nonviolent Culture</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the chosen topics in Gandhian welfare philosophy. Ethical, moral, social, and political foundations of Gandhian thought explored and their applications to problem resolution strategies and peaceful change at different levels demonstrated. Notes: This course is crosslisted with SW 493. Credit at the 600-level requires additional work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 701 - Social Welfare Policy I</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the history and philosophy of social welfare and social work in the United States. Social welfare decision making, policies, and services. Theory of social need and social interventions. Prerequisites: Graduate standing in Social Work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 703 - Social Welfare Policy II</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examines social welfare policy and provides analytical frameworks and guidelines for determining the efficacy of public policy in addressing human needs. Focuses on the issues of poverty, social services and generalist social work practice. Prerequisites: SW 701</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 705 - Social Work Practice with Therapeutic Groups</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Historical development of group work, practice methodology in interactional groups, and theoretical underpinnings for social work practice. Focuses on development of skills to lead therapeutic groups with a variety of diverse urban population. Prerequisites: SW 720 and SW 730 or SW 780</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 707 - Contemporary Issues in Diversity</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-depth study of selected contemporary issues in diversity, including issues such as immigration and native status, ethnicity, gender, and sexual orientation. Notes: Course may be repeated to a maximum of six credits.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 710 - Child Welfare Practice</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develops advanced knowledge and skills for use in intervening in current or potential problems of abuse, neglect, dependency, unruliness, and delinquency of children and youth. Types of services, both traditional and new, social workers provide to children. Prerequisites: SW 793 or concurrent enrollment in SW 793.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 715 - Human Behavior and the Social Environment I</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides advanced knowledge-building theories and knowledge of normal and abnormal human bio-psycho-social development and functioning of individuals, families and micro-groups. Focuses on the impact of social, economic, and cultural systems on individual, family and group well-being. Provides foundational understanding of the use of DSM-IV. Prerequisites: Graduate standing in Social Work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 716 - Social Work Research I</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Provides an understanding of the scientific-nalytic approach to the building of the knowledge base for social work practice at different levels. Provides familiarity with quantitative and qualitative research methodologies, various research designs, sampling procedures, data collection procedures, data analysis techniques, and report writing. Emphasizes diversity, empowerment, and social justice considerations as well as ethical standards of conducting research. Prerequisites: Graduate standing in Social Work.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 719 - Foundation Practicum I</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation field practicum course requires 225 hours of generalist social work practice in a social service agency and participation in weekly field seminar classes. Provides broad range of experiences, from micro to macro levels of intervention. Ongoing professional field supervision/consultation is a required component. Corequisite: Enrollment in SW 720.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SW 720 - Foundation Practice Methods I</th>
<th>Credits 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>First course in the foundation practice sequence introduces students to a generalist practice approach with individual, families, and groups. Emphasizes values, ethics, knowledge, and skills essential for working with clients. Prepares students with generic practice skills in assessment, interviewing, intervention, evaluation, and termination. Prerequisites: Graduate standing in Social Work. Corequisite: Enrollment in SW 719.</td>
<td></td>
</tr>
</tbody>
</table>
SW 726 - Social Work Research II
Credits 3
Provides knowledge and practice of program evaluation, single-subject design, descriptive statistics, inferential statistics, data management and data analysis using SPSS. Prerequisites: SW 716

SW 729 - Foundation Practicum II
Credits 3
Foundation field practicum course requires 225 hours of generalist social work practice in a social service agency and participation in weekly field seminar classes. Provides broad range of experiences from micro to macro levels of intervention. Ongoing professional field supervision/consultation is a required component. Prerequisites: SW 719 Corequisite: Enrollment in SW 730.

SW 730 - Macro Theory and Practice
Credits 3
Second course in the generalist foundation practice sequence focuses on professional practice with organizations, groups, coalitions, and communities, utilizing advanced knowledge and theories at the mezzo and macro levels. Emphasizes a strengths perspective and provides generalist-level content in management, community organization and development, and policy practice. Prerequisites: SW 719, SW 720 Corequisite: Enrollment in SW 729.

SW 734 - Advanced Standing Practice Seminar
Credits 3
Overview of the generalist model of social work practice with individuals, families, groups, communities, and organizations, emphasizing the integration of knowledge and practice, with the emphasis on practice skill development. Notes: Non-repeatable Grading: Letter Grade

SW 736 - Advanced Standing Integrative Seminar
Credits 3
Overview of the scientific method and research methodology with application of qualitative and quantitative analysis to social problems at the micro and macro levels, with special reference to diverse and oppressed populations. Notes: Non-repeatable for credit. Grading: Letter Grade

SW 739 - Field Practicum I (DP)
Credits 3
Field practicum requires 300 hours in a social service agency and attendance in weekly field seminar classes. Builds upon generalist foundation. Prepares for advanced, critically analyzed, and ultimately autonomous direct social work practice. Ongoing professional field supervision/consultation also required. Prerequisites: SW 729 or Advanced Standing. Corequisite: Enrollment in SW 740.

SW 740 - Direct Practice I
Credits 3
First course in advanced direct social work practice. Integrates skills of assessment, interviewing, intervention, and termination into social work treatment models and theories. Builds upon generalist foundation. Highlights empowerment, client advocacy, and strengths perspective. Emphasizes social work with individuals from culturally diverse and oppressed populations. Prerequisites: SW 730 or advanced standing. Corequisite: Enrollment in SW 739.

SW 747 - DSM: Assessment and Diagnosis
Credits 3
Exploration and a synopsis of the criteria for diagnoses in the DSM for social work practice. Focuses on the use of DSM in assessment interventions and with diverse urban populations.

SW 749 - Field Practicum II (DP)
Credits 3
Field practicum course requires 300 hours of experience in a social service agency and attendance in weekly field seminar classes. Builds upon generalist foundation. Prepares for advanced, critically analyzed, and ultimately autonomous direct social work practice. Ongoing professional field supervision/consultation also required. Prerequisites: SW 739 Corequisite: Enrollment in SW 750.

SW 750 - Direct Practice II
Credits 3
Second course in advanced direct social work practice. Intergrades systems of family-centered practice. Builds upon generalist and advanced curricula. Explores context of social work with families and groups via historical, conceptual, and contemporary modes of practice. Emphasizes working with culturally diverse and oppressed populations. Prerequisites: SW 740 Corequisite: Enrollment in SW 749.

SW 755 - Seminar in Forensic Social Work
Credits 3
Explores the interaction between social work and the law. Emphasizes the knowledge, skills, and values of practice with and within legal settings with a focus on interdisciplinary collaborations, ethical issues, and the varying roles of social workers within the legal arena.

SW 759 - Field Practicum I (MCP)
Credits 3
Field practicum course requires 300 hours of experience in a social service agency and attendance in weekly field seminar classes. It builds upon generalist foundation. Prepares for advanced, critically analyzed and ultimately autonomous practice in management and community practice. Ongoing professional field supervision/consultation also required. Prerequisites: SW 729 or advanced standing. Corequisite: Enrollment in SW 760.

SW 760 - Management and Community Practice I
Credits 3
Advanced applications of the management and planning processes as they relate to community organization and development. Uses community practice and management frameworks for human service organizations and community development and change. Prerequisites: SW 729 or advanced standing. Corequisite: Enrollment in SW 759.

SW 765 - Financial Management and Resource Development
Credits 3
Addresses the knowledge and skills needed to financially manage a human services organization. Prepares the student with problem-solving skills for innovative management in financial processes such as planning, financial control and analysis, budgeting, grant proposal writing, and resource development and allocation in a challenging environment. Same as: PUA 705 Prerequisites: PUA 701 or consent of instructor.

SW 768 - Supervision in Social Work
Credits 3
Delineates and explores principles, concepts, and components of supervision in social work. Examines the transition from worker to supervisor, differentiates supervision and consultation. Prerequisites: Graduate standing in Social Work.

SW 769 - Field Practicum II (MCP)
Credits 3
Field practicum course requires 300 hours of experience in a social service agency and attendance in weekly field seminar classes. It builds upon generalist foundation. Prepares for advanced, critically analyzed and ultimately autonomous practice in management and community practice. Ongoing professional field supervision/consultation also required. Prerequisites: SW 759 or advanced standing. Corequisite: Enrollment in SW 770.

SW 770 - Management and Community Practice II
Credits 3
Develops skills in needs assessment, program design and evaluation. Students understand social problems in the context of their communities and the needs and problems of a variety of sub-populations. Prerequisites: SW 760 Corequisite: Enrollment in SW 769.

SW 775 - Advanced Policy Practice
Credits 3
Advanced knowledge and skills in effective advocacy in the human services, particularly in management and community practice. Focus on social workers as political actors and activists with the ability to determine effective strategies and techniques among policy alternatives and an understanding of ethical complexity in an advocacy and political context. Prerequisites: SW 701, SW 703, SW 730

SW 776 - Legal and Ethical Issues in Social Work
Credits 3
Formerly: SW 676

SW 779 - Field Practicum (APP) III
Credits 3
Supervised social work practice experience consisting of 300 hours in a child welfare agency and attendance in weekly field seminar classes. Provides for the integration and application of social work values, knowledge, and micro to macro levels of advanced practice skills. Prerequisites: SW 769 Corequisite: Enrollment in SW 780.
SW 785 - Special Topics in Advanced Policy Credits 3
Advanced studies in a selected social policy issue. Emphasizes policy analysis of current and critical issues in areas such as child and family studies, poverty and homelessness, health and mental health, addictions, and policy practice. Prerequisites: SW 701, SW 703.

SW 786 - Child Welfare Program Evaluation Credits 3
In-depth analysis of the planning and evaluation process in child welfare. Analyzes challenges confronting child welfare organizations in the United States. Prerequisites: SW 716, SW 726.

SW 789 - Field Practicum II (Child Welfare) Credits 3
Supervised social work practice experience consisting of 300 hours in a child welfare agency and attendance in weekly field seminar classes. Provides for an appropriate progression in the integration and application of social work values, knowledge, and micro to macro levels of advanced practice skills. Prerequisites: Child Welfare Concentration.

SW 790 - Family-Based Practice Credits 3
Provides students with an understanding of and advanced competencies in family-based services. Integration of theory, practice, programming and research within family-based services. Students apply therapeutic problem solving models to complex family patterns. Prerequisites: SW 710, SW 793, or consent of instructor.

SW 791 - Advanced Practice With Children Credits 3
Examination of child and adolescent treatment issues and corresponding interventions. Child behavior disorders; issues of abandonment, grief and loss; and general children’s mental health issues. Prerequisites: Graduate standing in Social Work.

SW 795 - Capstone Seminar Credits 3
Capstone seminar focused on assessing intervention theories and strategies regarding a specific topic in social work practice. Prerequisites: SW 701, SW 703, SW 715, SW 716, SW 719, SW 720, SW 726, SW 729, and SW 730.

SW 796 - Thesis Credits 3
Development, completion, and oral defense of research project before a chosen committee, aimed at evaluation of practice outcomes at different levels and advancement of scientific knowledge for social work practice. Prerequisites: SW 716, SW 726.

SW 797 - Culturally Competent Child Welfare Practice Credits 3
Cultural competence in child welfare practice. Examination social, psychological, economic, political, and other structural aspects of racism, ethnicity, and multiculturalism as a dynamic of the public child welfare services system in the United States. Prerequisites: Graduate standing in Social Work.

SW 798 - Child Welfare Administration and Supervision Credits 3
Introduces students to contemporary theories on administration and supervision in organizations which provide services to children and families. Focuses on public and nonprofit child welfare administration and supervision. Prerequisites: SW 793.

SW 799 - Independent Study Credits 1 – 3
Intensive study in a specific area of student interest under the direction of a faculty member. May be repeated to a maximum of six credits. Prerequisites: Consent of instructor.

SW 7001 - Introduction to Forensic Social Work Credits 1
Required for Forensic Social Work Certification. Course provides an overview of forensic social work principles and practice. Students are oriented to the roles and functions of social workers in host legal settings, and introduced to the organizational and professional cultural factors inherent to interdisciplinary collaborations.

SW 7002 - Seminar in Family Law Credits 3
Required for Forensic Social Work Certification. Addresses the social worker’s involvement in criminal law as part of a legal team. Topics cover criminal litigation from the time an individual is charged through to adjudication and sentencing. Prerequisites: Admission to the Forensic Social Work Certification Program.

SW 7003 - Seminar in Family Law Credits 3
Surveys a spectrum of issues involving marriage, cohabitation and the family. Topics include the law and ethics of alternative dispute resolution (e.g. family, custody and divorce mediation), litigation in family matters, adoption, custody, guardianship, same-sex cohabitants, and parent-child issues with a solution focus. Prerequisites: Admission to the Forensic Social Work Certification Program.

SW 7004 - Skills Lab in Forensic Social Work Credits 3
Students will demonstrate forensic social work practice skills under critical analysis and review. Areas of focus include documentation and report writing for the legal arena, expert witness testimony, interviewing and assessment, mock court and advocacy. Prerequisites: Admission to the Forensic Social Work Certification Program.

SW 7005A - Field Practicum - Forensic Social Work Credits 3
Required for Forensic Social Work Certification. Alternative to SW 7005B. Experiential learning at a community-based agency within the legal arena. Students will apply forensic social work theory and concepts to supervised practice. Notes: Course requires completion of practicum hours and field seminar attendance. Prerequisites: Admission to the Forensic Social Work Certification Program; SW 7001.

SW 7005B - Professional Presentation - Forensic Social Work Credits 3
Alternative to SW 7005A. Students will participate in directed research and present in a topical area of forensic social work theory or practice at a conference or symposium. Prerequisites: Admission to the Forensic Social Work Certification Program; instructor permission required.

SW 7010 - Capstone to Forensic Social Work Credits 2
Continuation of SW 7001; students are required to demonstrate integration and synthesis of certification program content. Requirements include the production of (1) a publication quality paper co-authored with social work or law faculty, and (2) a professional portfolio documenting program achievements. Prerequisites: Admission to the Forensic Social Work Certification Program, SW 7001.